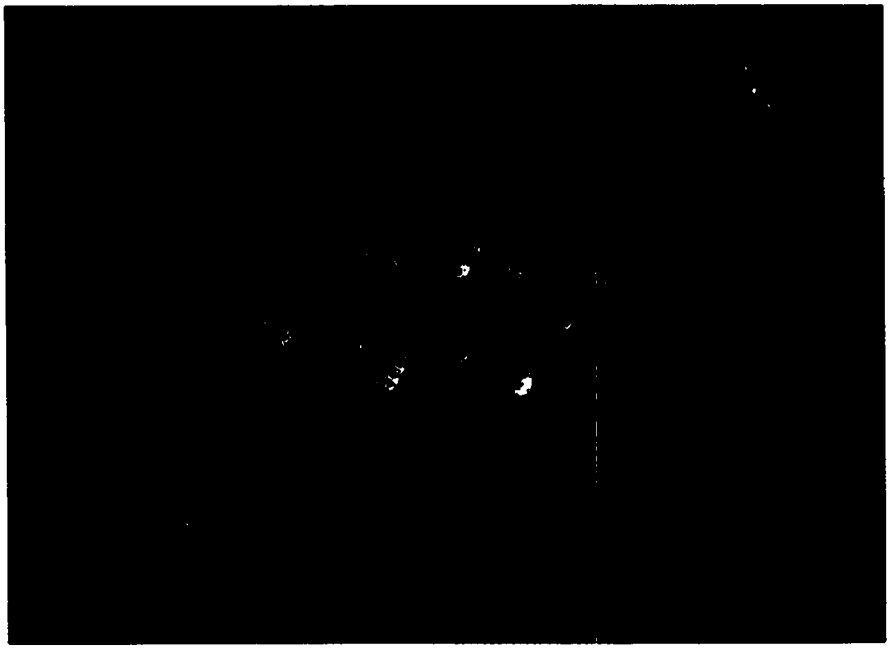
SONY

3-752-990-23 (1)



Trinitron® Color TV

Operating Instructions for 6 models

Before operating the unit, please read this manual thoroughly and retain it for future reference.

KV-27XBR51 KV-32XBR51
KV-27XBR55 KV-32XBR55
KV-32XBR75 KV-29XBR85

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Contents

Preface

This section tells you about special features, safety information, and preparatory information for using this manual.

Chapter 1: Set up

This section shows you how to get your TV ready.

Chapter 2: Basic Operation

This section gives you basic information about using your TV.

Chapter 3: Adjustment

This section shows you how to adjust the picture and sound to your own taste.

Chapter 4: Advanced Operation

This section shows you how to use the picture-in-picture and other useful features, as well as the programmable Remote Commander.

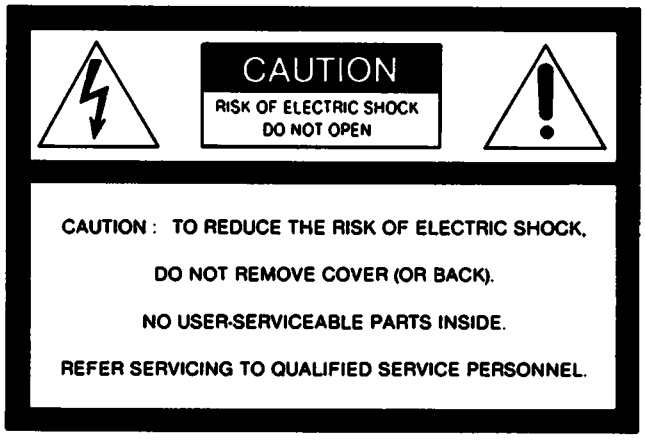
Appendix

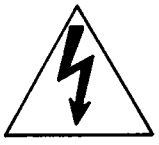
This section gives you the troubleshooting, specifications, glossary and the index.

● For detailed table of contents, see page 3.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Note to CATV system installer in the USA
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

If you have any questions or problems concerning your unit, please contact your nearest Sony dealer.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS."

Owner's Record

The model and serial numbers are located at the rear of the unit. Record these numbers in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

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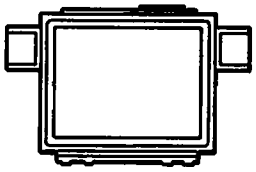
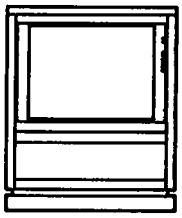
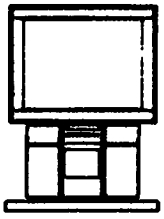
Identify Your TV Before Use

In this manual, the instructions are given using the model with the maximum functions. Please disregard information in the manual which does not apply to your TV.

Before you proceed, please check the model number of your TV set.
This manual applies to several models and there are slight differences among them. Please check the table below to see what is equipped with your TV before you begin the operation.

Table of models — YES: equipped NO: not equipped

Model	27/32XBR51	27/32XBR55	32XBR75	29XBR85
Shape				
Picture-in-picture function	NO	YES	YES	YES
Super woofer	YES	YES	NO	YES*
The number of S video input jacks	3	3	1	1
EXTERNAL SPEAKER or SPEAKER OUT terminals	YES	YES	NO	NO
Supplied Remote Commander	RM-Y106	RM-Y107	RM-Y107	RM-Y108

* KV-29XBR85 contains the super woofer speakers in the stand.

Introducing the Sony XBR Series

With this TV, you can:

- Receive up to 125 cable channels for a total of 181 possible off-air and cable channels with the multi-band VHF/UHF/CATV tuner.
- Receive stereo programs and Second Audio Program (SAP) broadcasts with the built-in Multichannel TV Sound (MTS) decoder.
- Get superior VCR playback pictures through the S VIDEO IN jack (when you connect a VCR with an S video output jack).
- Watch the picture and sound of your VCR through the monitor output jacks.
- Get hi-fi sound through the variable audio output jacks (when you connect an audio system).

All of these features are usually provided on recent Sony TVs.

- Watch two or more channels at the same time ("picture-in-picture").
  — Watch another channel or a VCR in a window picture.
  — Store a TV picture and call it up. (digital memo)
  — Scan other channels simultaneously and choose one of them.
  (Provided only for KV-27XBR55, 32XBR55, 32XBR75, 29XBR85)
- Get three-dimensional sound reproduction with the 3D sound system (when you connect two main speakers and one super woofer speaker).
- Get fine picture constantly with the Active Signal Correction (ASC) system. The ASC system adjusts the signals and corrects distorted signals for the entire picture on the screen.
- Get natural sound with the Sound Retrieval System (SRS®)*.
  This system is effective for both stereo and monaural sound.
- Set up the TV and adjust the picture and the sound in the on-screen menu. In the on-screen menu, you can set everything with mainly three buttons, + / – and RETURN.

All of these are unique features of the XBR series.

And here are the Sony's advanced technology that have been applied to the XBR series to obtain high quality picture:

- The New Dynamic picture™ system adjusts picture contrast automatically to produce more detail in both bright and dark areas of every scene.
- The Colorpure Filter™ produces fine picture detail without color spill or color noise.
- The Velocity Modulation (VM) circuitry produces clean and sharp black and white contrasts.
  (Provided only for KV-29XBR85, 32XBR51, 32XBR55, 32XBR75)
- The Dynamic Focus™ circuitry automatically focuses the scanning electron beam for enhanced sharpness over the entire picture, especially in the corners.
  (Provided only for KV-29XBR85, 32XBR51, 32XBR55, 32XBR75)
- The Trinitone™ control allows you to adjust the color temperature (tint) of the picture so that you can obtain the best color.

**Sound Retrieval System (SRS®) reproduces the ambience and dynamics of a live performance, creating the sense of being present at the concert hall or recording studio. SRS lets you enjoy optimum sound from anywhere in the room.*

(●) SOUND RETRIEVAL SYSTEM

The (●) Sound Retrieval System is manufactured by Sony Corporation under license from the Hughes Aircraft Company, a subsidiary of GM Hughes Electronics. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

(●), Sound Retrieval System and SRS® are trademarks of the Hughes Aircraft Company, a subsidiary of GM Hughes Electronics.

About the Manual

This manual is designed for you, the average user. You can use this manual to find exactly the information you need, whether or not you are familiar with TV sets.

To get the most out of your TV, it is important to read this manual carefully. It will answer any questions you may have about using the TV. It shows you how the TV works and provides step-by-step instructions on how to use it.

Use the information below to help you follow the instructions in this manual.

- Names of the buttons and positions on the TV are shown in capital letters:
  Ex. Press ENTER.
  Set the CABLE VIDEO to VIDEO.
- The steps you need to follow are shown like this:
  Ex. Press ADD.
- Introductions are in italics, like this:
  Ex. *A You can receive cable TV by connectig a cable supplied by your local cable company.*

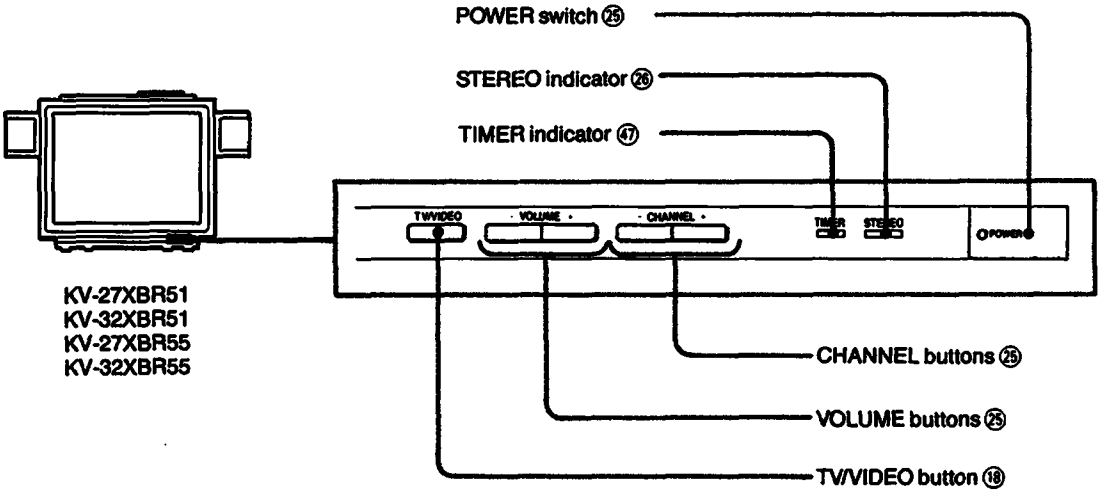
There is a glossary provided at the end which lists the definitions of certain technical terms that appear in the text.
There is also an index provided at the end so that you can find out what page the information you need is on.

Names of the Parts

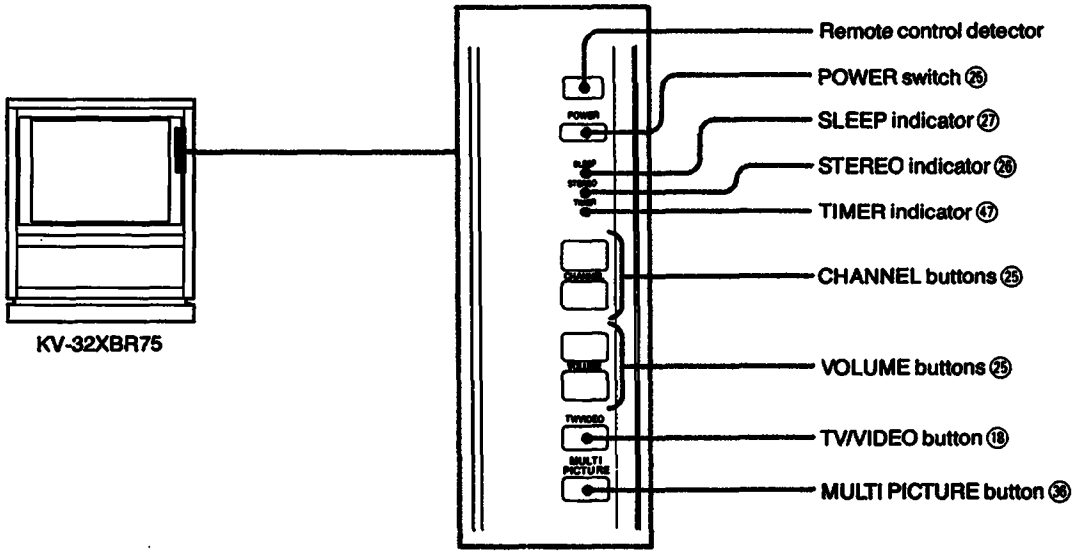
To be continued ▶

See the pages indicated in ○ for the instructions.

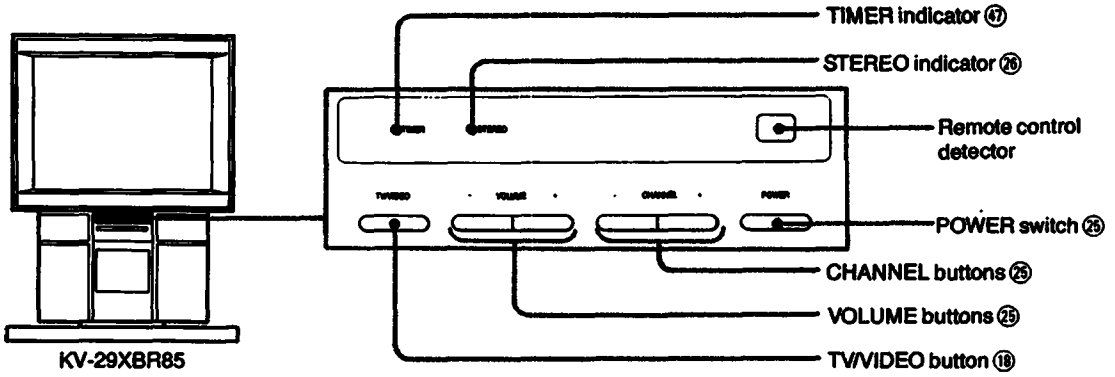
Front



KV-27XBR51
KV-32XBR51
KV-27XBR55
KV-32XBR55

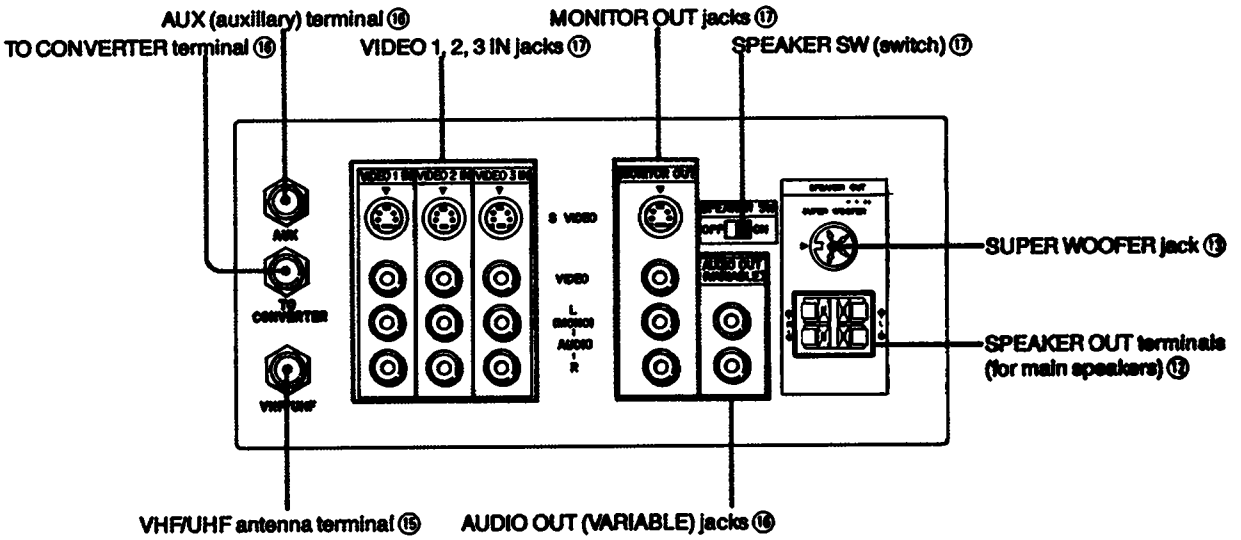


KV-32XBR75



KV-29XBR85

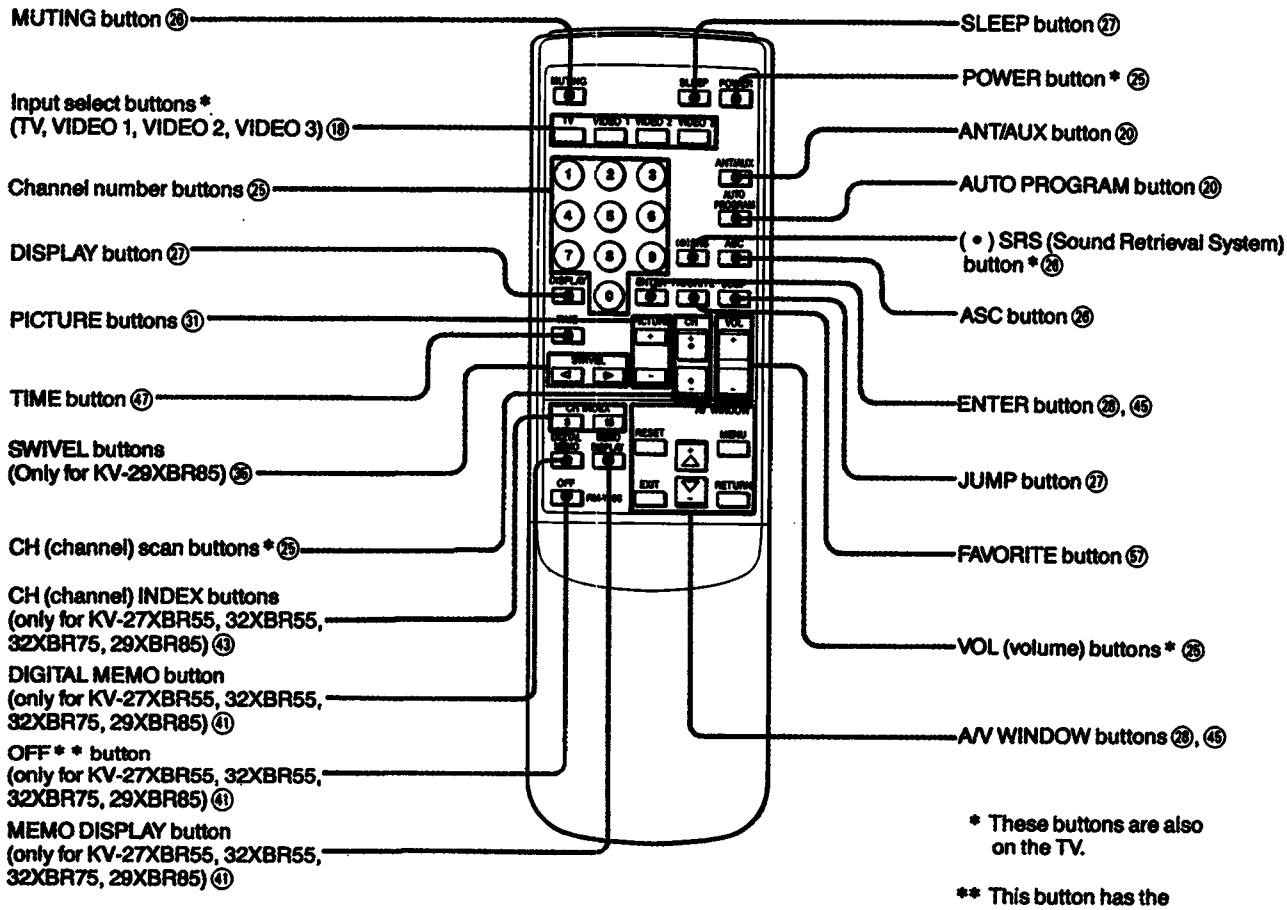
Rear


AUX (auxiliary) terminal ⑯
TO CONVERTER terminal ⑯
VIDEO 1, 2, 3 IN jacks ⑰
MONITOR OUT jacks ⑰
SPEAKER SW (switch) ⑰
SUPER WOOFER jack ⑬
SPEAKER OUT terminals (for main speakers) ⑫
VHF/UHF antenna terminal ⑮
AUDIO OUT (VARIABLE) jacks ⑭

The whitened parts are only for KV-27XBR51, 32XBR51, 27XBR55, 32XBR55.

Programmable Remote Commander

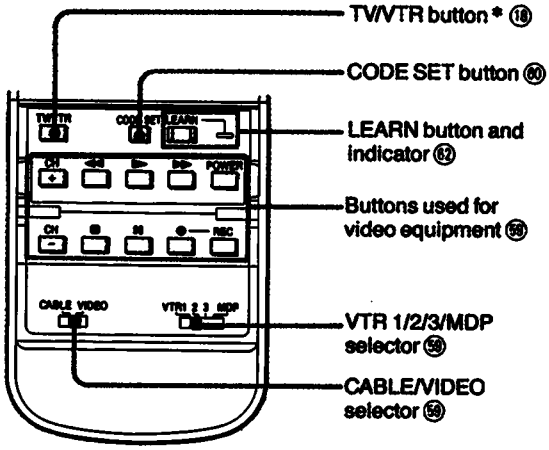
See the pages indicated in ○ for instructions.



* These buttons are also on the TV.

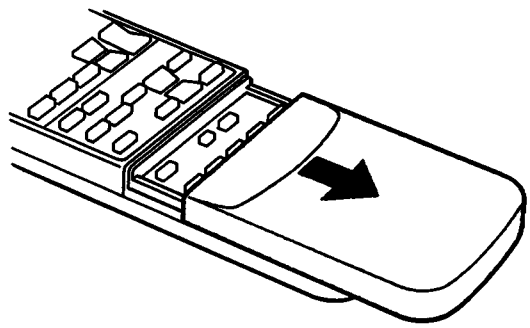
** This button has the same function as OFF inside the cover.

Buttons inside the cover

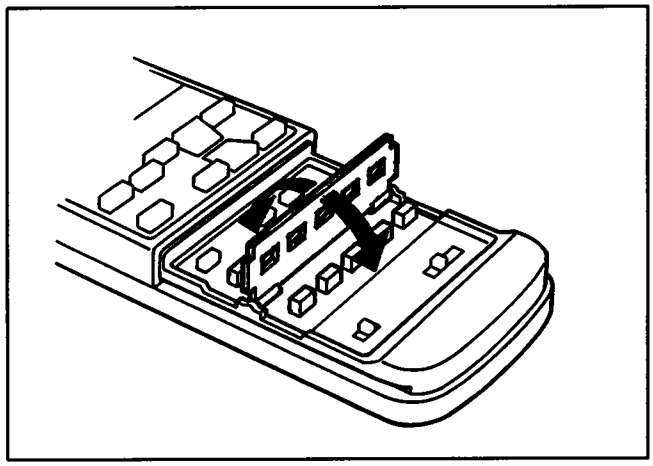


To use the buttons inside the cover

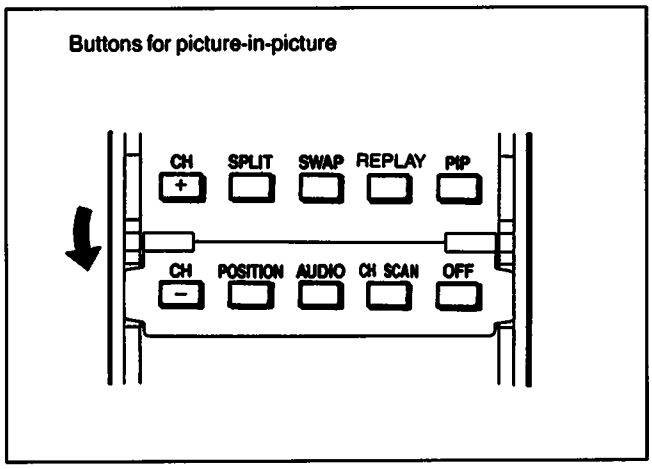
Slide down the cover.



For models equipped with the panel (KV-27XBR55, 32XBR55, 32XBR75, 29XBR85), place the panel up or down.

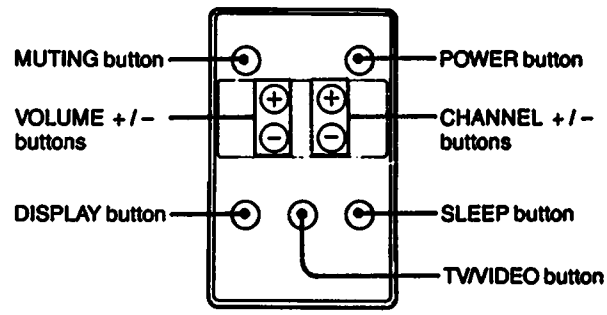


When the panel is up, buttons for video equipment appear. When the panel is down, buttons for picture-in-picture appear.



Mini Remote RM-KIT

The mini commander is supplied only to KV-27XBR51, KV-32XBR51, KV-27XBR55, KV-32XBR55.



1. Unpack the TV

1 Carefully take the TV set out of the packing carton according to the instructions on the outside of the carton. Save the carton and packing materials for later transport.

Note
The supplied accessories are packed in the upper part of the carton. Be sure not to dispose of them.

2 Place the TV in a dry, cool place so that the ventilation openings at the side of the unit are not blocked.

3 Plug the TV into an AC 120 volt power outlet.

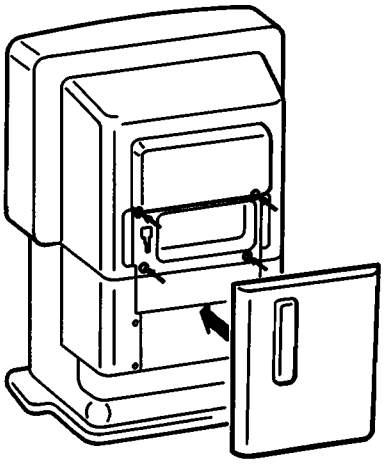
Note on inserting the plug
One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

Safety Notes
Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.

For owners of the KV-29XBR85
The cover for rear panel is packed inside the TV stand.

1 When you unpack the TV, open the TV stand doors and take the cover out from inside the stand.

2 When you have finished making all the connections (see page 15 to 19 for connecting information), attach the cover as illustrated below:

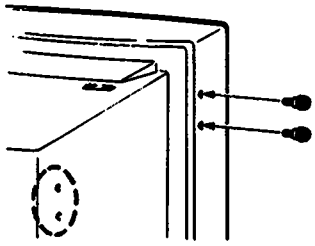


Note
When you unpack the TV, take off the shock absorbers. Otherwise, you will not be able to use the swivel function.

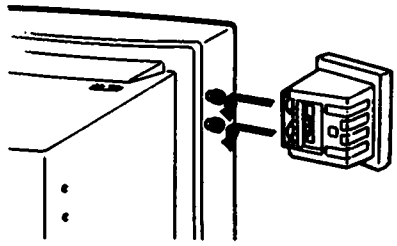
2. Install the Speakers (Necessary for KV-27XBR51, 32XBR51, 27XBR55 and 32XBR

Step 1: Install the Main Speakers

1 Attach the supplied screws.



2 Install the main speakers left and right.

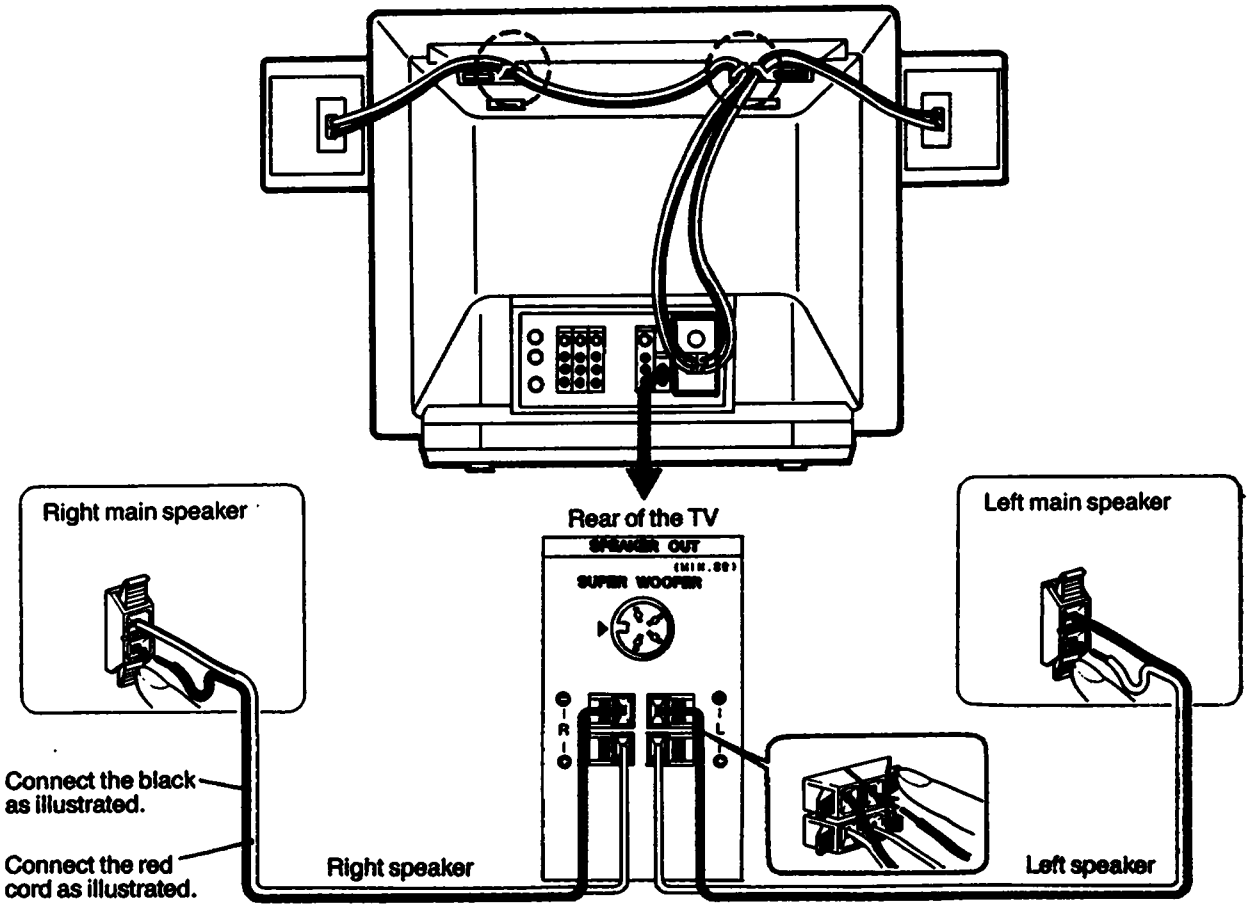


*Or you can attach the main speakers deep at the rear portion of the TV.

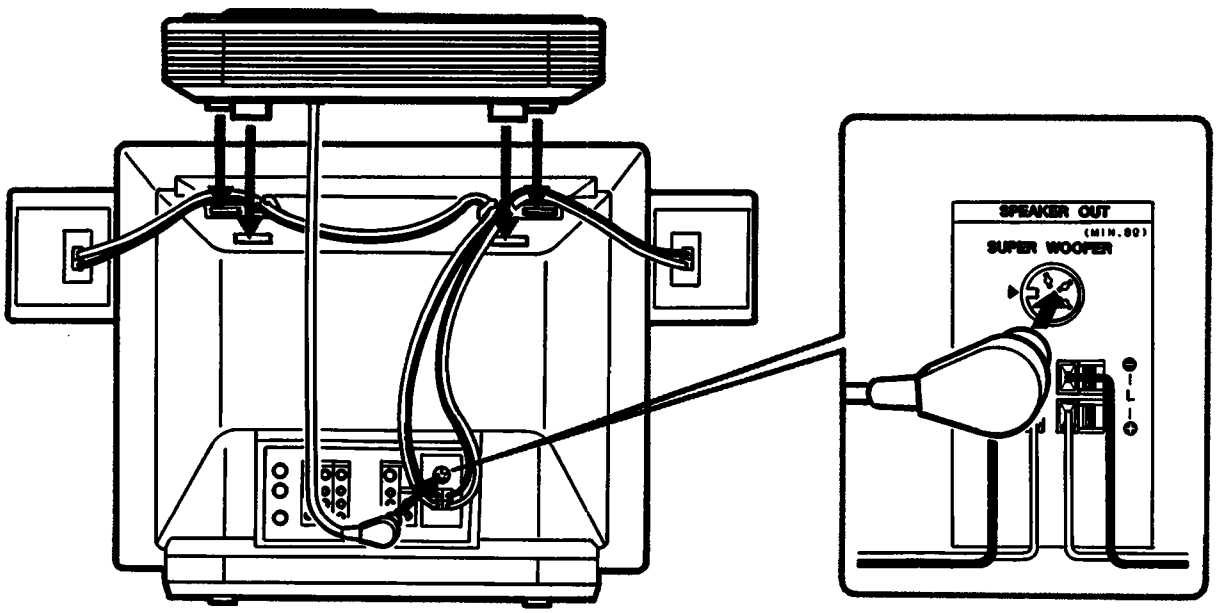
You can place the main speakers anywhere within the reach of the speaker cords instead of attaching them to the TV. When installing them on the TV, be sure not to place them on the woofer. The speakers are provided with camera screws for installation on a speaker stand, tripod, etc.

Step 2: Connect the Main Speakers

Make sure to turn off the TV before connecting the speaker cords.



Step 3: Connect the Super Woofer



1 Insert the projecting parts at the bottom of the super woofer into the receptacles on the top of the TV.
2 Connect the super woofer cord to the SUPER WOOFER jack on the rear of the TV.

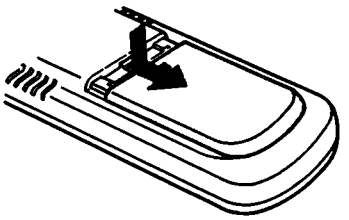
Notes on the speakers

- Do not carry the TV holding the main speakers.
- The low bass sound is output from the super woofer. Be careful not to block the openings of the super woofer when installing the TV. Otherwise, the low bass sound will not be fully reproduced.
- Be sure to use the supplied speakers, since the TV and the speakers produce sounds as one unit.

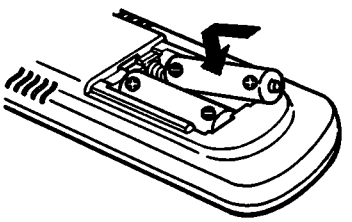
3. Prepare the Remote Commander

Install the batteries in the Programmable Remote Commander

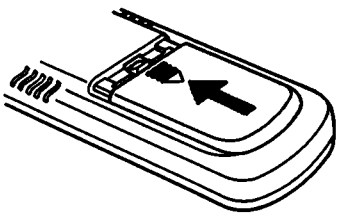
1 Push to open the lid.



2 Install two size AA (R6) batteries with the correct polarity.



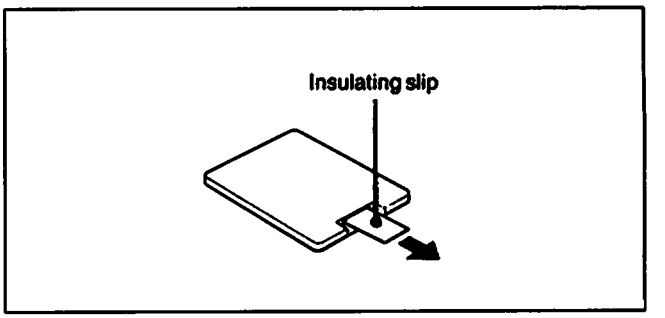
3 Replace the lid.



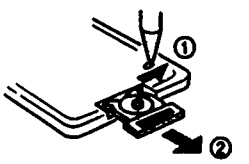
- Under normal operation, batteries will last up to half a year. If the Remote Commander does not operate properly, the batteries might be exhausted. Replace both of them with new ones.
- To avoid damage from possible battery leakage, remove the batteries if you will not use the Remote Commander for a long time.

Install the batteries in the Mini Remote

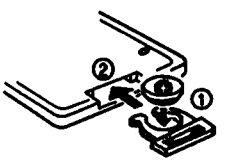
(The Mini Remote is supplied to KV-27XBR51, 32XBR51, 27XBR55 and 32XBR55, only.)



1 Insert a thin instrument into the hole, and while pressing it in the direction of the arrow (①), pull out the battery case (②).



2 Insert a Sony CR2025 battery with the flat surface (positive side) upward.



Caution

On the lithium battery

- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.
- Replace the battery with a Sony CR2025 lithium battery. Use of another battery may present a risk of fire or explosion.

WARNING

Battery may explode if mistreated. Do not recharge, disassemble or dispose of it in fire.

4. Connect the TV to Your Antenna/Cable

To be continued ▶

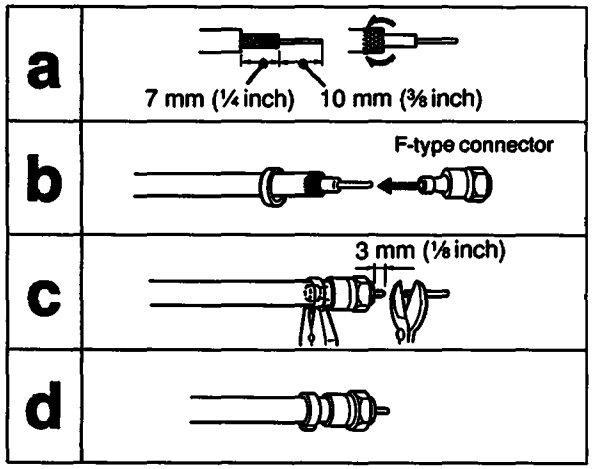
You can use either an indoor or outdoor antenna with your TV. We recommend using an outdoor antenna for better picture quality.
You can receive cable TV by connecting a cable supplied by your local cable company.

To Connect a VHF, UHF, or VHF/UHF Combination Antenna * or CATV Cable

75-ohm coaxial cable (round)

1 Check your antenna cable type and prepare the end of the cable using the F-type connector.

Attach an F-type connector (not supplied).



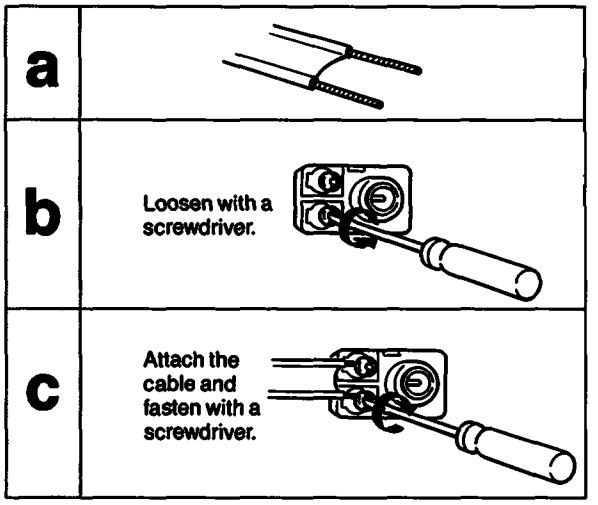
2 Plug the connector into the VHF/UHF terminal at the rear of the TV.

* Most combination antennas are equipped with a signal splitter. Remove the splitter and attach the appropriate connector.

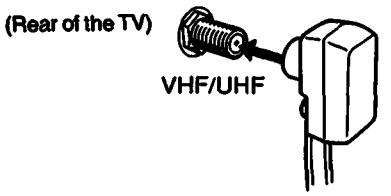
300-ohm twin-lead cable (flat)

1 Check your antenna cable type and prepare the end of the cable using the antenna connector.

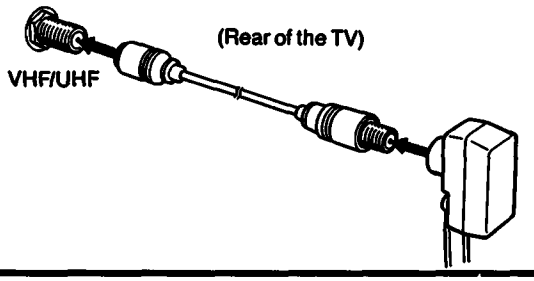
Attach an antenna connector (not supplied).



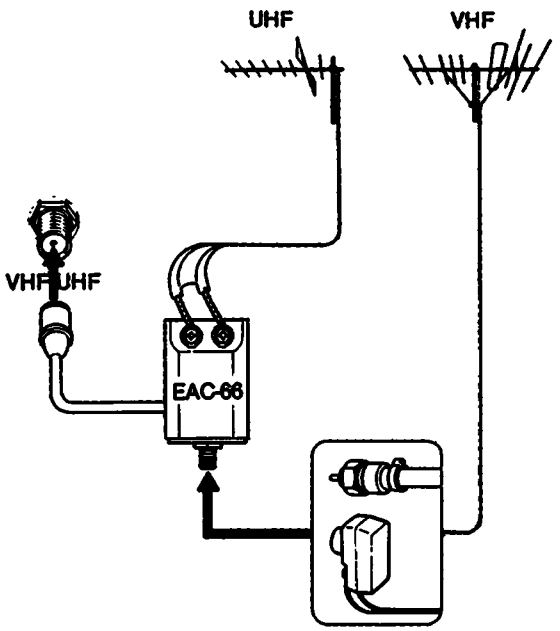
2 Plug the connector into the VHF/UHF terminal at the rear of the TV.



For better picture quality, connect optional antenna cable so that the 300-ohm twin-lead cable can be separated a distance from the TV.



If you want to connect both VHF and UHF antennas



Use the EAC-66 U/V mixer (not supplied).

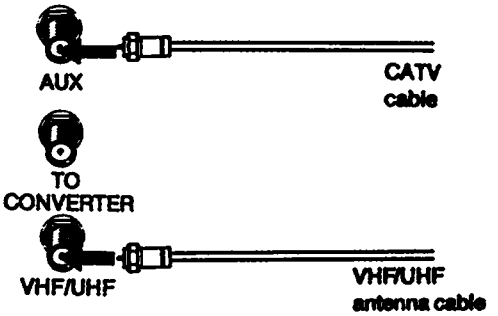
1 Prepare the VHF antenna cable end using the appropriate connector.

2 Connect the cables to the mixer.

3 Connect the mixer to VHF/UHF.

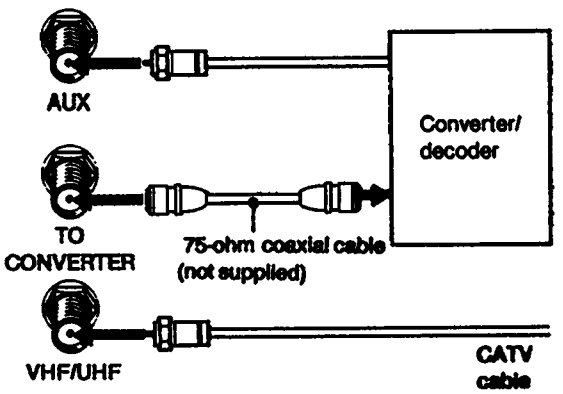
When you use the U/V mixer.
Snow and noise may appear in the pictures of the cable TV channels over 37 (W + 1).

If you want to connect both VHF/UHF antennas and a CATV cable



Note
In this case, do not connect anything to the TO CONVERTER terminal.

If you want to connect a cable with a special converter/decoder * for pay cable TV systems



Pay cable TV systems use scrambled or encoded signals and require special converters (decoders) in addition to the normal cable connection.

* The special converter/decoder will be supplied by the cable company.

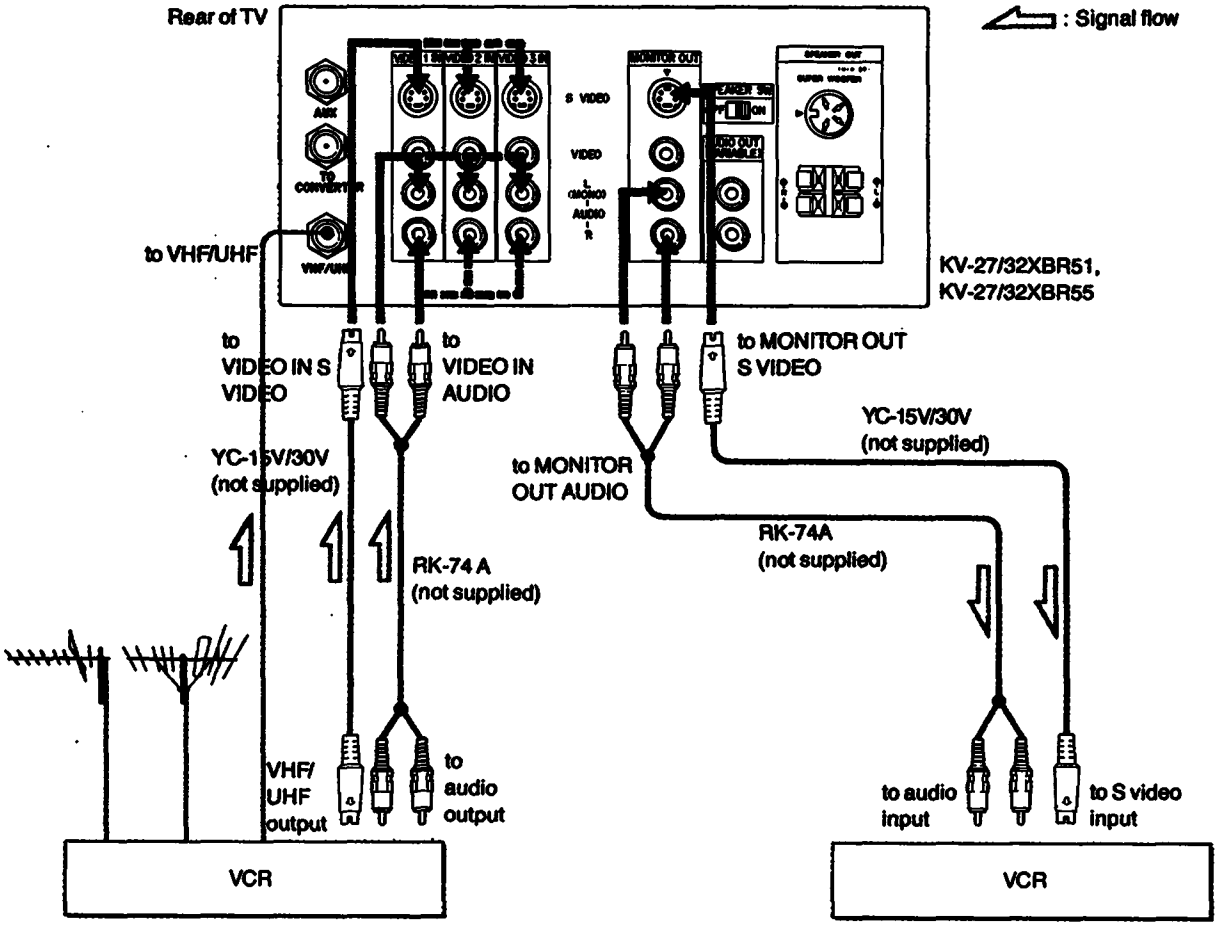
5. If You Want to Connect Other Equipment

To be continued ▶

If You Want to Connect a VCR

With these connections, you will be able to...
— View the playback of video tapes
— Record TV programs
— Record a TV program while viewing another

1 VCRs with an S video output jack

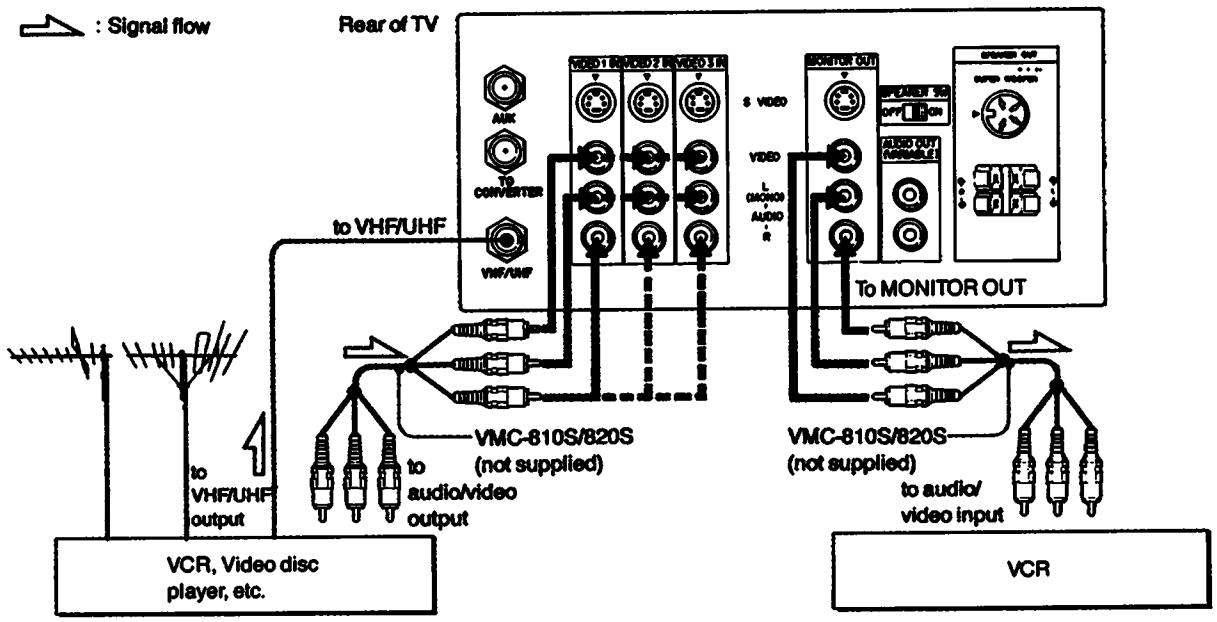


Notes: The signal input to VIDEO IN cannot be output from S VIDEO OUT.
The signal input to S VIDEO IN can only be output from S VIDEO OUT.

Notes

- If you connect a monaural VCR, connect the audio output of the VCR to the L (MONO) jack of VIDEO 1/2/3 IN of the TV. You can hear the monaural sound from both speakers.
- For operation, refer to the instruction manual furnished with the VCR.
- Keep the VCR away from the TV if the picture or sound is affected.
- Do not connect the same VCR to output and input.

2 VCRs/video disc players not equipped with an S video output jack



Preparations

1 Turn on the TV.

2 Press the TV/VIDEO button on the TV or an input select button on the Remote Commander so that the "VIDEO 1", "VIDEO 2" or "VIDEO 3" indication appears on the screen.
VIDEO 1: for equipment connected to VIDEO 1 IN
VIDEO 2: for equipment connected to VIDEO 2 IN
VIDEO 3: for equipment connected to VIDEO 3 IN

- You can label each of these input modes. For details, see page 48.
- You need not to select mode when you use the direct play function. For details, see page 50.

Operation

For operation, refer to the instruction manual furnished with the VCR.

When you use an infrared remote control VCR, you can operate the VCR with the supplied Remote Commander regardless of it is Sony VCR or non-Sony VCR.
See "Using the Programmable Remote Commander" on page 61.

To return to the TV mode
— Press the TV/VIDEO button on the TV so that a channel number appears on the screen.
— Press the TV button on the Remote Commander.

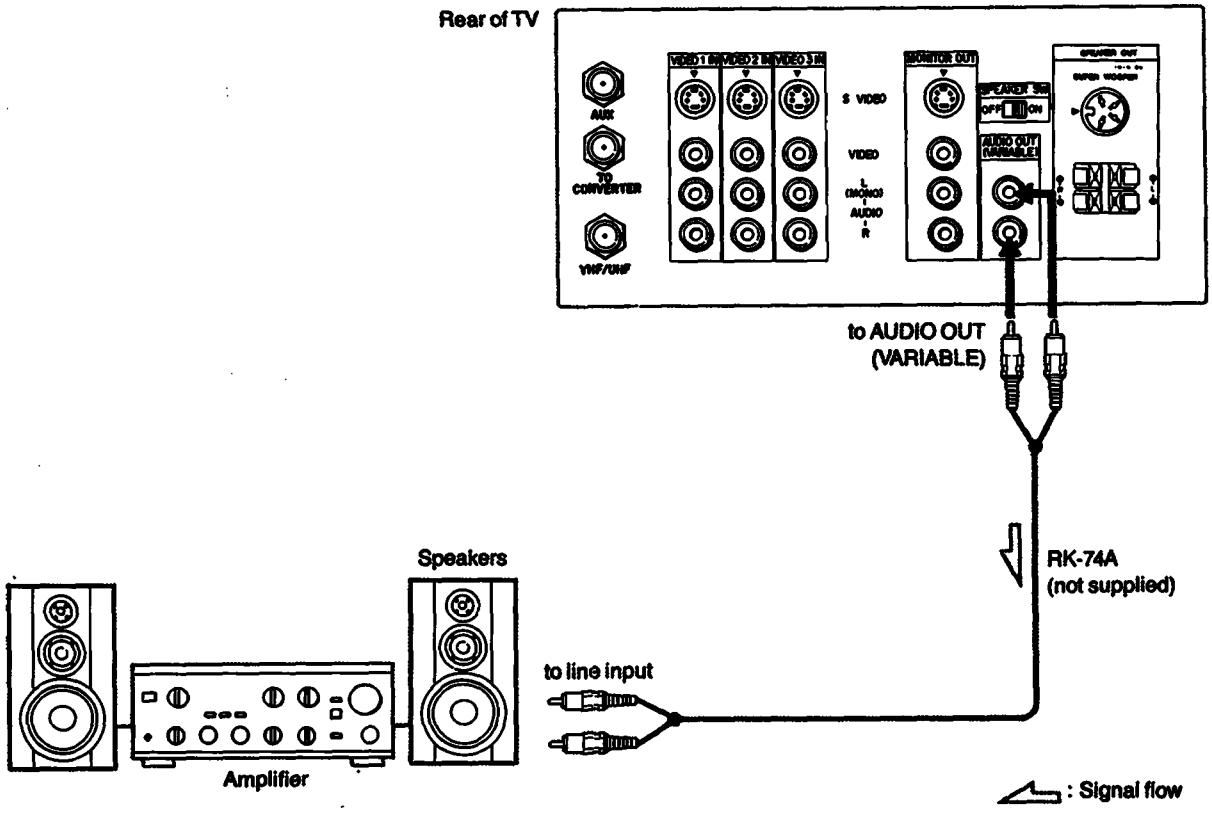
To view one TV program while recording another
Press the TV/VTR mode select button on the VCR or Remote Commander so that the VCR will be in the TV mode. Press the TV button on the Remote Commander, and select the channel you want to view.

When you cannot obtain a clear picture and/or sound
Make sure that the TV/VTR mode select button on the VCR is set to TV. Re-select the desired channel with the buttons on the TV or the Remote Commander.

To be continued ▶

If You Have an Audio System

— To listen to the TV or connected VCR sound through an audio system



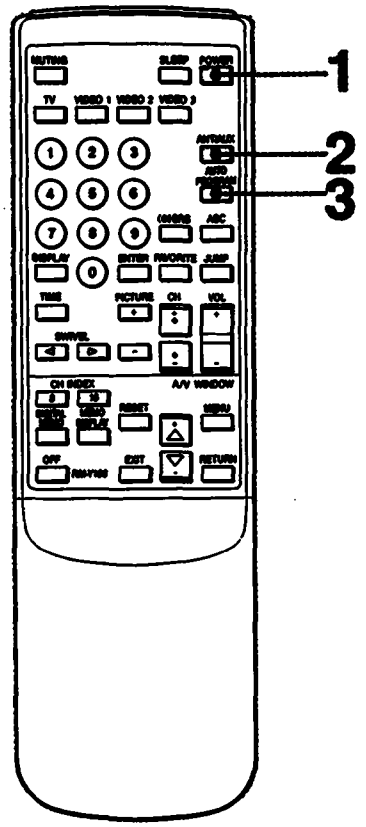
Set the amplifier's function to line input.

To adjust the sound level

Leave the amplifier volume, bass and treble controls at their mid position and adjust the level with the VOLUME buttons on the TV or the VOL buttons on the Remote Commander.

When you do not want to hear the TV sound,
be sure to set the SPEAKER SW (switch) on the TV to OFF.
The sound from the TV's speakers will be cut off.

6. Preset TV Channels



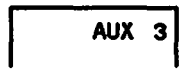
To Preset All Receivable Channels Automatically

Only with pressing a button, on can preset all receivable channels automatically.

1 Press POWER on the TV or the Remote Commander to turn the TV on.

2 Press ANT/AUX according to the channel to be preset.

To preset VHF, UHF or regular cable TV channels



To preset pay cable TV channels

3 Press AUTO PROGRAM.

"AUTO PROGRAM" is displayed on the screen and receivable channels (other than the channels already preset) will be preset in numerical sequence. The channels previously preset remain in the unit's memory.
When no more channels can be found, the programming stops and the lowest numbered channel is displayed.

Notes

Receivable channels of this TV are:
VHF: 2-13
UHF: 14-69
Cable: 1-125

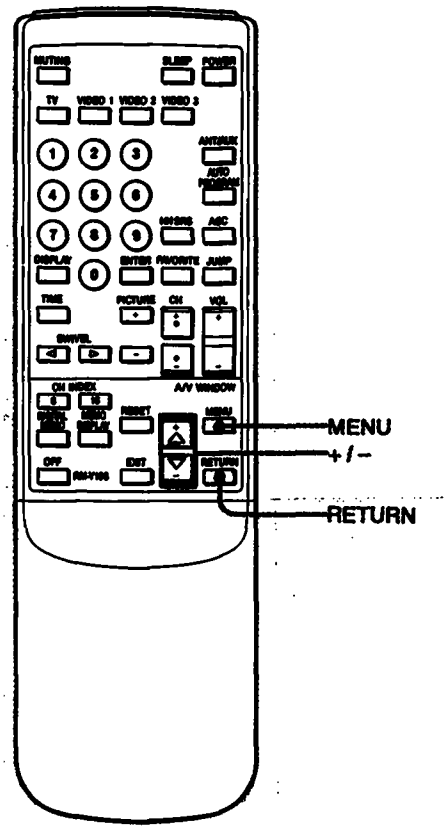
To check preset channels
Press CH +/−.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3, S VIDEO, LD, or VTR" is displayed on the screen
Press the TV/VIDEO button on the TV or the TV button on the Remote Commander so that a channel number appears.

Without presetting
You can watch TV channels by using the 0-9 buttons and ENTER.

To Turn the Cable Mode Off (or On)

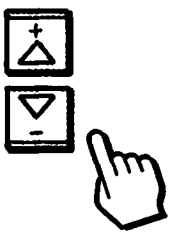
If you have cable connected to your TV, follow the steps below to turn the cable connection off or on. Turn cable OFF when you want to preset or watch VHF or UHF channels, and turn cable ON to preset or watch cable TV channels.



1 Press MENU.

```
   A/V WINDOW

  ▶VIDEO
    AUDIO
    GUIDE
    SET UP
Use[▲ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press + / – until ▷ points to "SET UP".

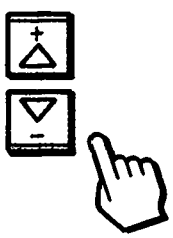


```
   A/V WINDOW

    VIDEO
    AUDIO
    GUIDE
  ▶SET UP
Use[▲ ▽]&[RETURN]
[EXIT] to quit.
```

3 Press RETURN.

```
      SET UP
▶TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
```

4 Press + / – until ▷ points to "CABLE".

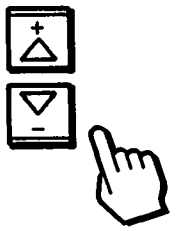


```
      SET UP
  TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
▶CABLE: ON
```

5 Press RETURN.

```
      SET UP
  TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
Use[▲ ▽]&[RETURN]
```

6 Press + / – until the cable is turned off (or on).



```
    SET UP
  TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
  CABLE: OFF
Use[△ ▽]&[RETURN]
```

7 Press RETURN.

```
    SET UP
  TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
▶CABLE: OFF
```

Note

Cable TV channel chart *

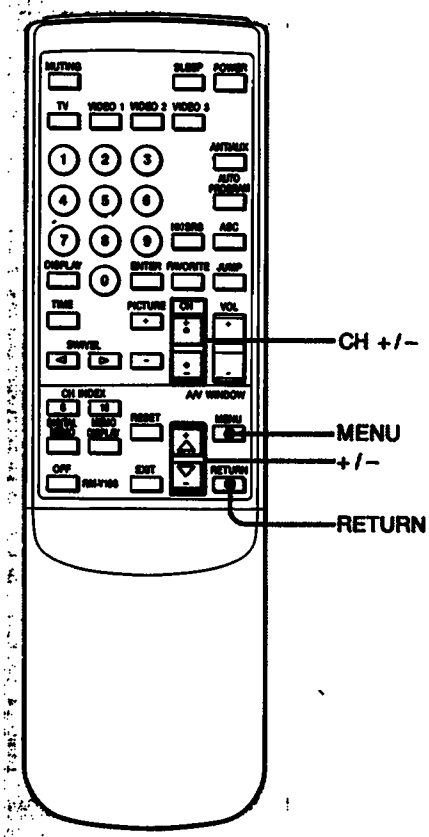
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV	Corresponding CATV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W+1
38	W+2
39	W+3
⋮	⋮
93	W+57
94	W+58
95	A-5
96	A-4
97	A-3
98	A-2
99	A-1
100	W+59
101	W+60
102	W+61
⋮	⋮
123	W+82
124	W+83
125	W+84

Check with your local cable TV company for more complete information on the available channels.

* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

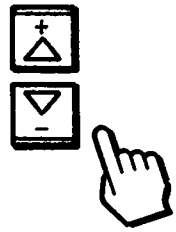
To be continued ▶



To Erase TV Channels

Steps 1 – 3: Same as in "To Turn the Cable Mode Off (or On)" (page 21).

4 Press + / – until ▷ points to "CHANNEL ERASE".

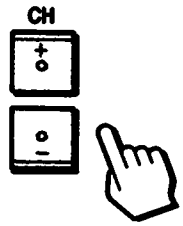


```
      SET UP
  TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
▶CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
Use[△ ▽]&[RETURN]
```

5 Press RETURN.

```
  ERASE

Use [CH+, -] to
select the CH.

Then [RETURN] to
erase.
```

6 Press CH + / – to set the desired channel.




```
  ERASE          8

Use [CH+, -] to
select the CH.

Then [RETURN] to
erase.
```

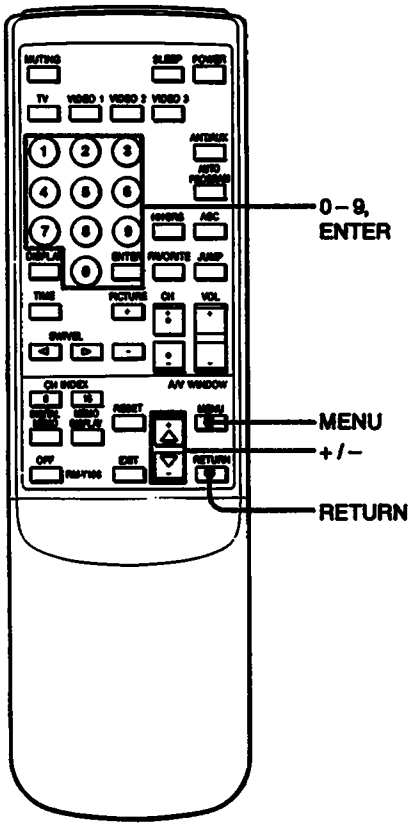
7 Press RETURN.

```
  ERASE        - 8

Use [CH+, -] to
select the CH.

Then [RETURN] to
erase.
```

The channel is erased.
If you want to erase another channel, repeat steps 6 – 7.

Note

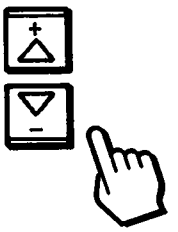
If you have erased a VHF or UHF channel
The cable TV channel with the same number is also erased and vice versa.



To Add TV Channels

Steps 1 – 3: Same as in "To Turn the Cable Mode Off (or On)" (page 21).

4 Press +/– until ▷ points to "CHANNEL ADD".

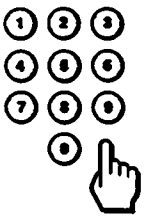


```
    SET UP
 TIME SET
 VIDEO LABEL
 CHANNEL CAPTION
 CHANNEL ERASE
▶CHANNEL ADD
 CABLE: ON
```

5 Press RETURN.

```
 ADD

Use[0-9]&[ENTER]
to select the CH.

Then [RETURN] to
add.
```

6 Press 0 – 9 to set the desired channel.



```
 ADD            2 0

Use[0-9]&[ENTER]
to select the CH.

Then [RETURN] to
add.
```

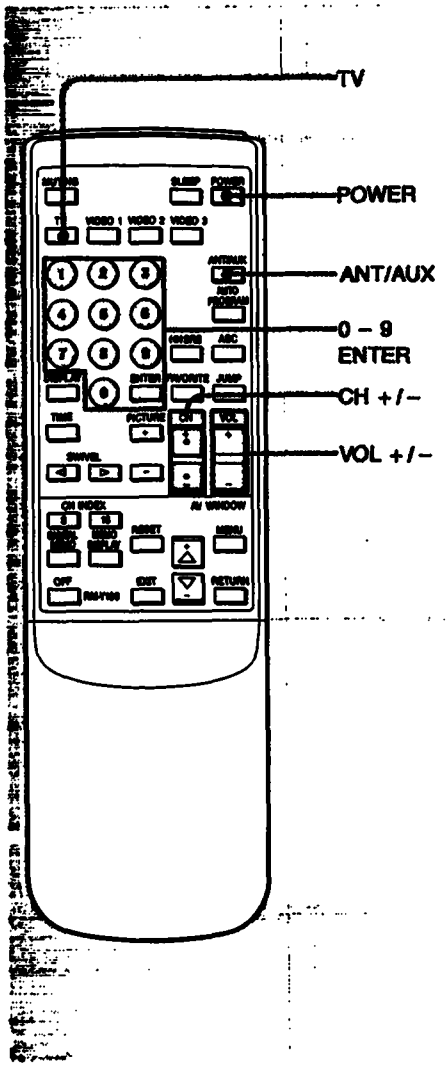
7 Press ENTER.

8 Press RETURN.

```
 ADD          + 2 0

Use[0-9]&[ENTER]
to select the CH.

Then [RETURN] to
add.
```

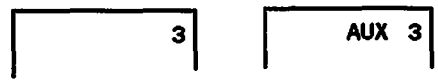
The channel is added.
If you want to add another channel, repeat steps 6 – 8.

Watching TV Programs



1 Press POWER on the TV or the Remote Commander to turn on the TV.

2 Press ANT/AUX according to the channel to be watched.
If you want to change the cable mode, see page 00.

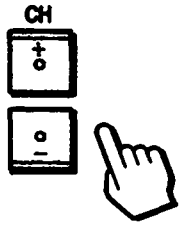


To view VHF, UHF or regular cable TV channels

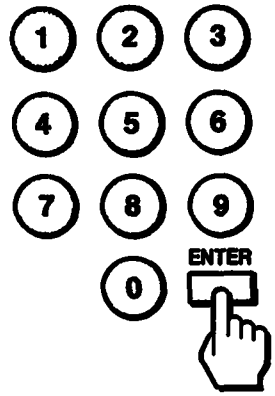
To view pay cable TV channels

3 Select a channel in one of the following two ways:

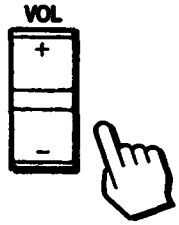
To scan the preset channels in numerical sequence, press CH +/–.



To select a channel directly, press the channel number button(s) and then ENTER.
For example, to select channel 10, press 1, 0 and ENTER.



4 Press VOL + or – to adjust the volume.



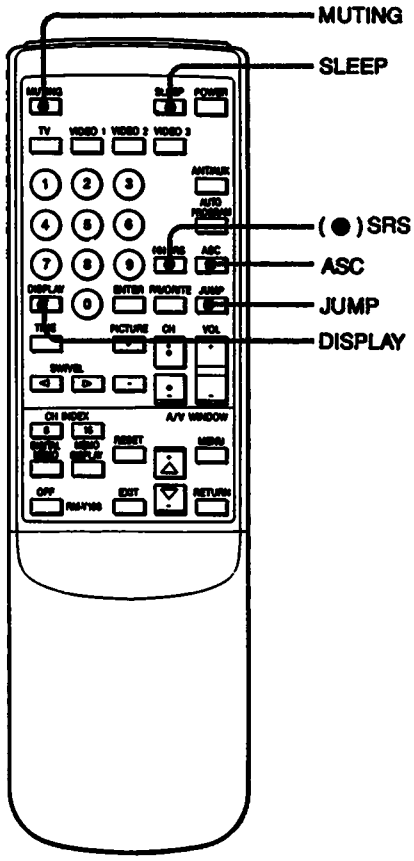
Notes

To turn off the TV
Press POWER on the TV or the Remote Commande again.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3, S VIDEO, LD, or VTR" is displayed on the screen
Press TV on the Remote Commander.

If you set the FAVORITE CHANNEL
You can choose the channels more easily.

Convenient Operations



Sound

To get more natural sound reproduction

Press (●) SRS (Sound Retrieval System).
Each time you press SRS, "SRS [AUTO]", "SRS [STEREO]" or "SRS OFF" is selected in sequence.

In the SRS [AUTO] mode, the TV uses the SRS for stereo and for monaural according to the transferred signal mode.
In the SRS [STEREO] mode, the TV uses the SRS functions only when the stereo signal is transferred.

To receive a Multichannel TV sound program

Press MENU and select "AUDIO".
And select the MTS mode. For details, see page 34.

To mute the sound

Press MUTING.
The "MUTING" indication will appear on the screen.
To restore the sound, press MUTING again or VOL +.

Picture

To select the picture

Press ASC (Active Signal Correction).
Each time you press ASC, "ASC", "ASC THEATRE" or "ASC OFF" is selected in sequence.

In the ASC mode, you can watch the more vivid picture.
In the ASC THEATRE mode, you can watch the more optimum picture. So you can watch the TV more comfortably for a long time. For example, you can use this mode when you watch TV in a darkened room.

Timer

To use the SLEEP timer

Press SLEEP.

The TV goes off automatically after about an hour.
The green "SLEEP ON" indication will appear on the screen for three seconds when the SLEEP button is pressed. And the red "SLEEP" indication will appear one minute before the TV is turned off automatically.

To cancel the SLEEP timer

Press SLEEP again. The "SLEEP OFF" indication will appear three seconds before the SLEEP timer is canceled.

Only for KV-32XBR75

The SLEEP indicator on the TV will remain lit until the TV is turned off.

Channel

To keep the channel displayed

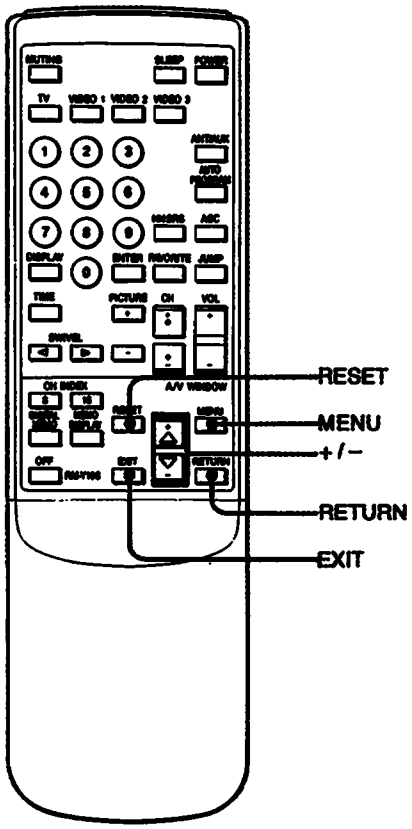
Press DISPLAY.
To make the channel display disappear, press DISPLAY again.

To switch quickly between two channels

Press JUMP.
Each time JUMP is pressed, the channel which appeared on the screen directly before is recalled. This button enables you to keep track of two programs alternately. JUMP also switches programs in the ANT/AUX mode.

Adjusting the Picture and Sound

You can adjust the picture and sound levels and store the adjustment levels in memory for each input mode (TV, VIDEO 1/2/3).

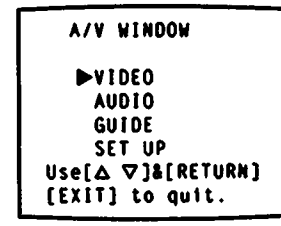


Adjusting the Picture

Adjusting HUE, COLOR, BRIGHT (brightness), SHARP (sharpness)

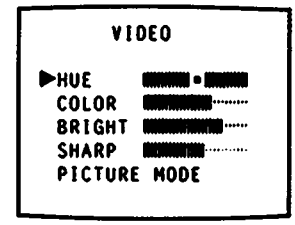
Press MENU.

1 Press MENU.

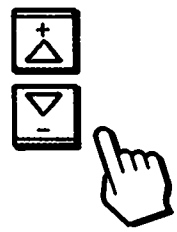


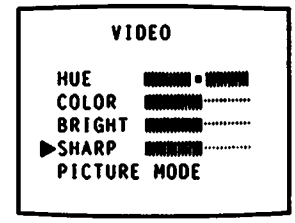
2 Make sure ▷ points to "VIDEO".

3 Press RETURN.
"VIDEO" is selected.

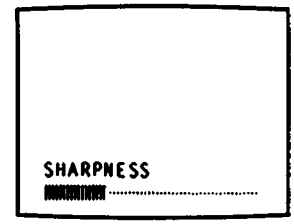


4 Press + / – until ▷ points to the item you want to adjust.



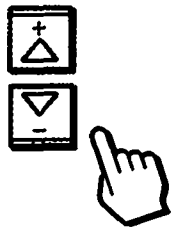


5 Press RETURN.



To be continued ▶

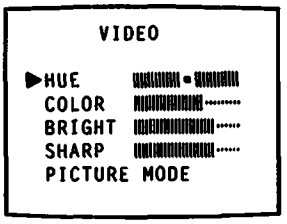
6 Press + / – to adjust the item.



The function of + / – for each item

	Press – to:	Press + to:
HUE	make skin tones purplish	make skin tones greenish
COLOR	decrease color intensity	increase color intensity
BRIGHT	darken the picture	brighten the picture
SHARP	soften the picture	sharpen the picture

7 Press RETURN.



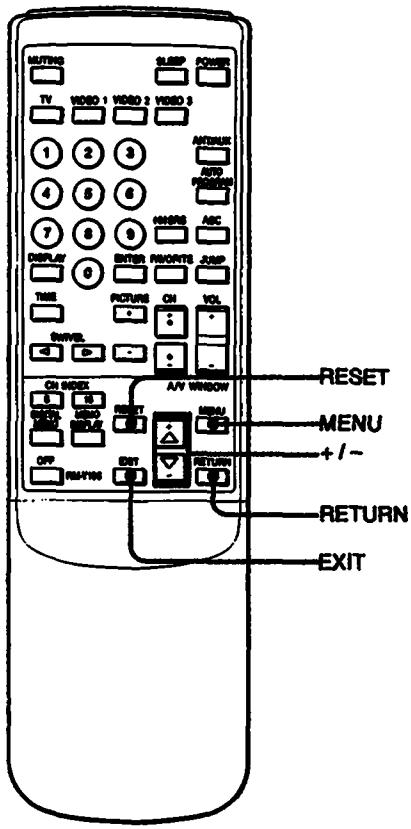
If you want to adjust other items, repeat steps 4 – 7 until you get a satisfactory picture.

Notes

To restore the normal picture
Press EXIT.

To clear the adjustment levels and restore the factory preset levels at once
Display the "VIDEO" page and press RESET, then EXIT.

For models with the picture-in-picture function:
- You cannot adjust HUE and COLOR when the picture is stored.
- You cannot adjust SHARPNESS, NR and NOTCH control for SPLIT picture and 16 window pictures.



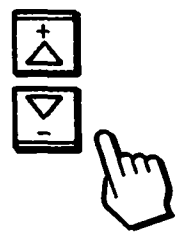
Note

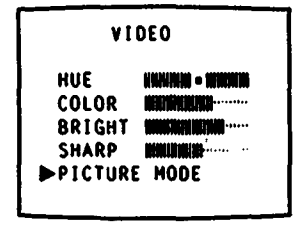
NOTCH adjustment is not unnecessary for the KV-29XBR85.
Digital/Intelligent Color Pure Filter™ adjusts dots or stripes when you watch the picture from the VCR or the computer.

Adjusting NOTCH, NR (Noise Reduction) and TRINITONE.

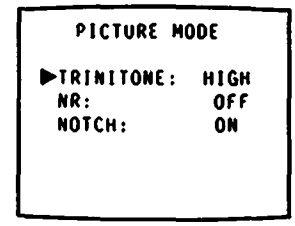
1 Press MENU and select "VIDEO" with + / –, then press RETURN.

2 Press + / – until ▷ points to "PICTURE MODE".

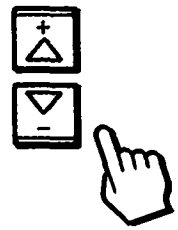


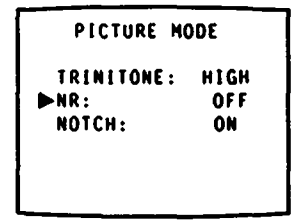


3 Press RETURN.

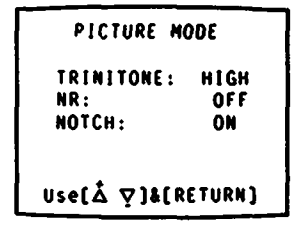


4 Press + / – until ▷ points to the item you want to adjust.

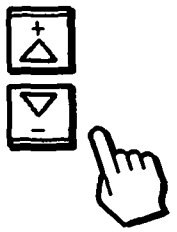




5 Press RETURN.



6 Press + / – to select the desired condition of the item.



```
PICTURE MODE

TRINITONE:  HIGH
NR:           ON
NOTCH:        ON

Use[▲ ▽]&[RETURN]
```

The object of ON/OFF (HIGH/LOW) for each item

	Set to ON (HIGH) to:	Set to OFF (LOW) to:
NOTCH	adjust dots or stripes when you watch the picture from the VCR or the computer	(normal picture)
NR	reduce picture noise	(normal picture)
TRINITONE	make picture cool (bluish)	make picture warm (reddish)

7 Press RETURN.

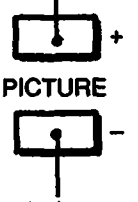
```
PICTURE MODE

▶TRINITONE:  HIGH
 NR:           ON
 NOTCH:        ON
```

If you want to adjust other items, repeat steps 4 – 7 until the picture is satisfactory.

Note

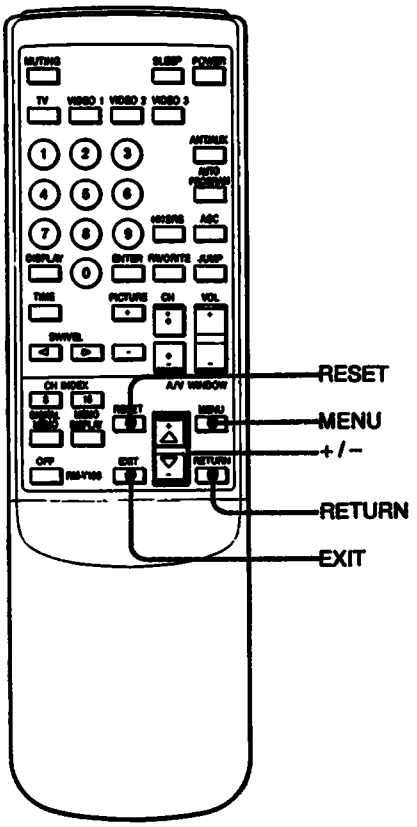
To adjust picture contrast

Press to increase picture contrast with vivid color.



Press to decrease picture contrast with soft color.

The picture contrast level cannot be memorized under each input mode.



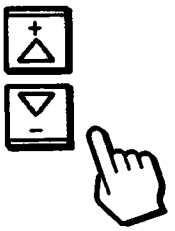
Adjusting the Sound

Adjusting TREBLE, BASS, BALANCE

1 Press MENU.

```
A/V WINDOW

▶VIDEO
  AUDIO
  GUIDE
  SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press + / – until ▷ points to "AUDIO".

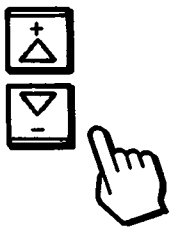


```
A/V WINDOW

  VIDEO
▶AUDIO
  GUIDE
  SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

3 Press RETURN.

```
AUDIO

▶TREBLE
  BASS
  BALANCE
  MTS: MAIN
```

4 Press + / – until ▷ points to the item you want to adjust.



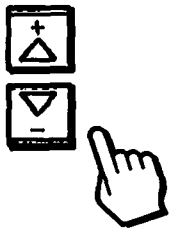
```
AUDIO

  TREBLE
▶BASS
  BALANCE
  MTS: MAIN

Use[△ ▽]&[RETURN]
```

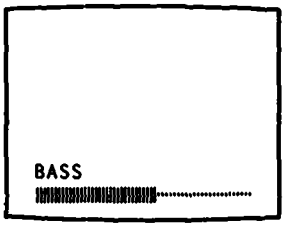
5 Press RETURN.

```
BASS
```

To be continued ▶

6 Press + / – until the item is adjusted.

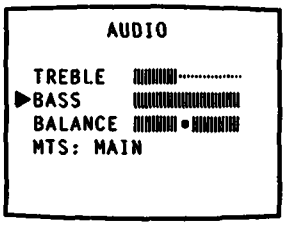




The function of + / – for each item

	Press – to:	Press + to:
TREBLE	decrease the treble response	increase the treble response
BASS	decrease the bass response	increase the bass response
BALANCE	emphasize the left speaker's volume	emphasize the right speaker's volume

7 Press RETURN.

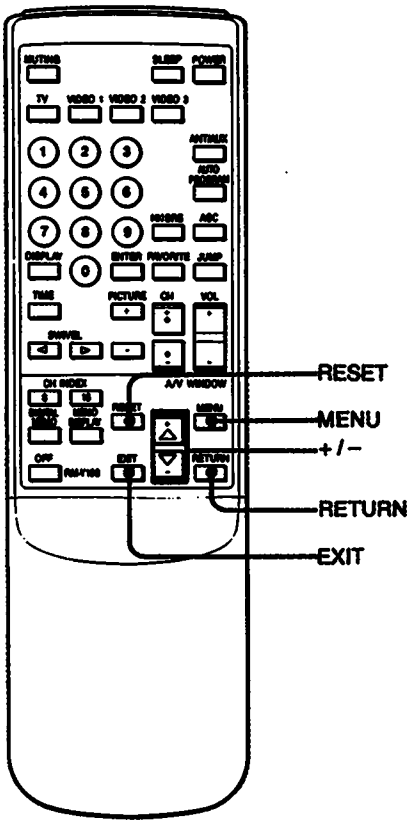


If you want to adjust other items, repeat steps 4 – 7 until you get a satisfactory sound with the three items.

Notes

To restore the normal picture
Press EXIT.

To clear the adjustment levels and restore the factory preset levels at once
Display the "AUDIO" page and press RESET, then EXIT.

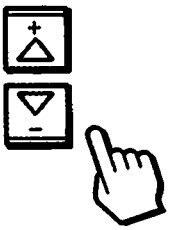


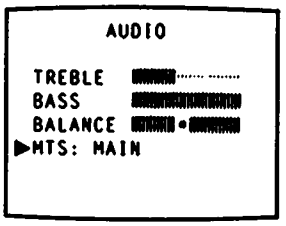
Selecting MTS (Multichannel TV Sound program) mode

To listen to stereo sound, select the MAIN mode so that the on-screen MAIN indication appears. The STEREO indicator on the TV lights up whenever a stereo broadcast is received.
To listen to the second audio program, select the SAP mode.
There may be cases of stereo broadcasts where excessive noise will be heard due to a weak incoming signal. You may be able to eliminate this noise by selecting the MONO mode.

1 Press MENU and select "AUDIO" with + / –, then press RETURN.

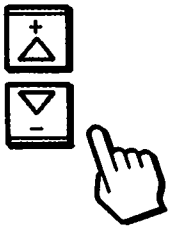
2 Press + / – until ▷ points to "MTS".

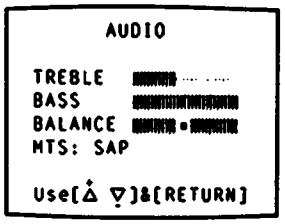




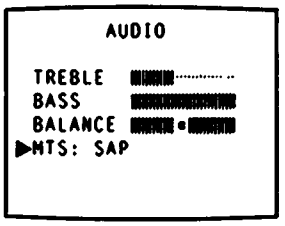
3 Press RETURN.

4 Press + / – to select MAIN, SAP or MONO.





5 Press RETURN.



Notes

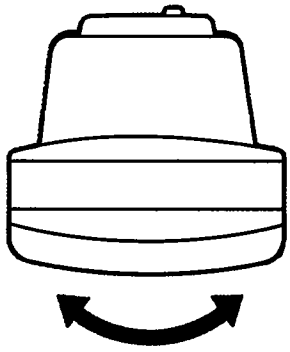
To restore the normal picture
Press EXIT.

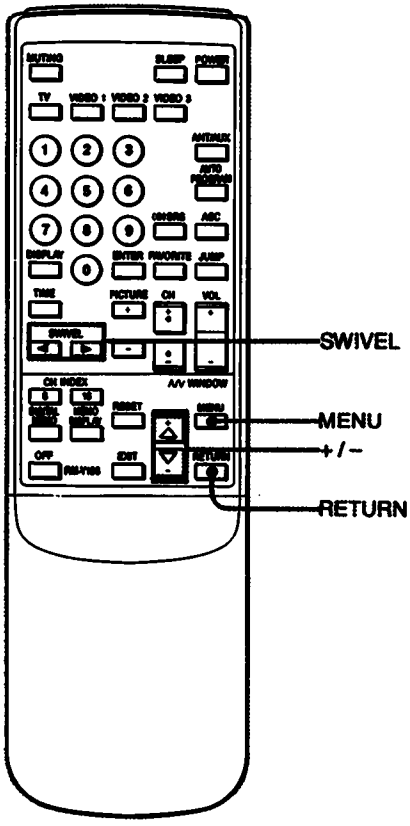
If you press RESET during the "AUDIO" page is displayed
The MTS mode is not affected.

The three modes of MTS

Adjusting the Swivel (necessary only for KV-29XBR85)

TV top view





Press SWIVEL ◀/▶ to swivel the TV.
You can adjust the angle by 15 degrees in each direction.

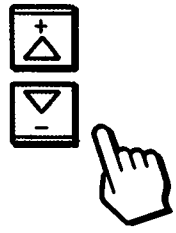
Activating Degaussing

When you use the SWIVEL function, the picture may suffer from color shading. If this occurs, you can adjust it by activating the degauss function.

1 Press MENU.

```
   A/V WINDOW

  ▶VIDEO
    AUDIO
    GUIDE
    SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press + / – until ▷ points to "GUIDE".



```
   A/V WINDOW

    VIDEO
    AUDIO
  ▶GUIDE
    SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

3 Press RETURN.

```
        GUIDE

▶ON/OFF TIMER
  CHANNEL BLOCK
  FAVORITE CHANNEL
  DEGAUSS
```

4 Press + / – until ▷ points to "DEGAUSS".

```
        GUIDE

  ON/OFF TIMER
  CHANNEL BLOCK
  FAVORITE CHANNEL
▶DEGAUSS
```

5 Press RETURN.

The degauss function is activated.

Notes

On activating degauss
When you swivel the screen right after activating the degauss function, wait for 5 minutes or more before activating it again.

During activating degaussing
The picture may be confused.

When rotating the TV on its swivel
Be careful that the corners of the TV casing do not hit obstructions, thus marring the finish.

Watching Two or More Channels at the Same Time (The models

You can watch two or more channels at the same time.

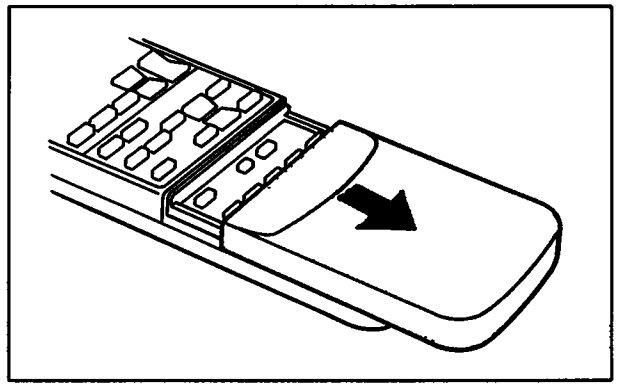
- ***When watching two channels** (the main picture and a window picture)*
  You can:
  - *swap the main and the window picture.*
  - *change the position of the window picture.*
  - *replay the main picture displayed 2 seconds before in the window picture.*
  - *split the screen with the main and the window picture.*
  - *store a TV picture.*
- ***When watching more channels** (the main picture and several window pictures)*
  You can:
  - *watch 8 different channels*
  - *watch 16 different channels*
- ***You can scan other channels***

Note

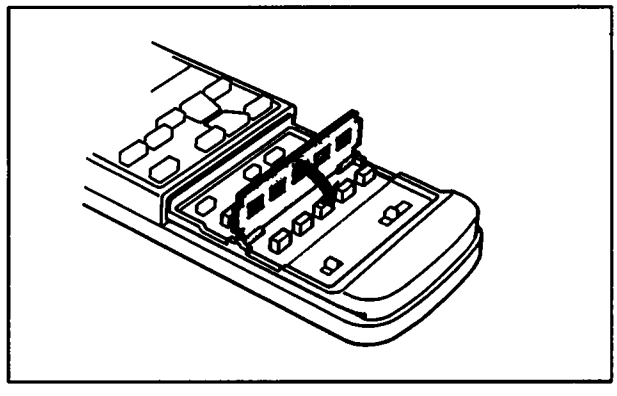
For KV-32XBR75
When you press MULTI PICTURE on the TV, the picture-in-picture features will be demonstrated.
To cancel the demonstration, press OFF.

Preparation

1 Slide the cover of the supplied Remote Commander.

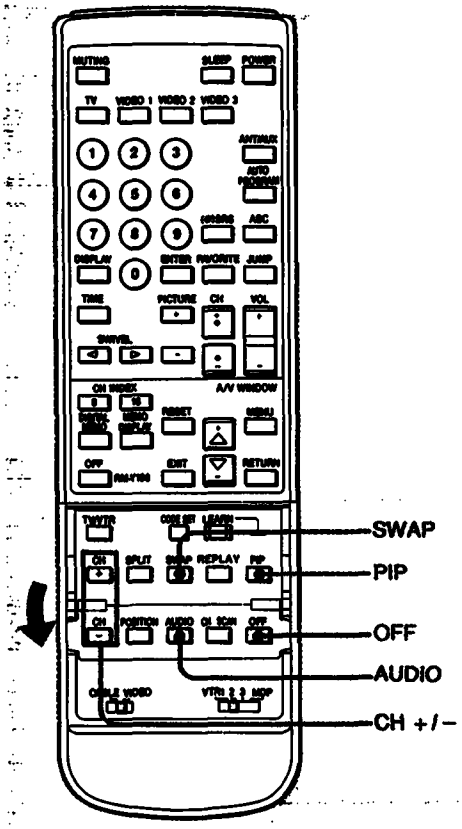


2 Flip down the panel to use the picture-in-picture area.



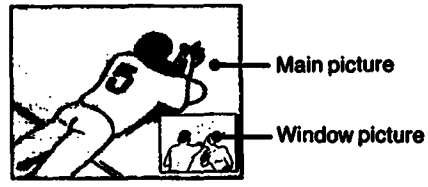
To be continued ▶

equipped with this functions are: KV-27XBR55/KV-32XBR55/KV-32XBR75/KV-29XBR85)



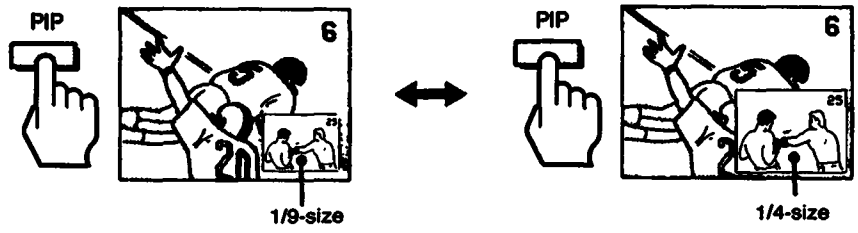
Watching a Window Picture

Besides the main picture, you can watch another TV channel (including CATV) or a video source simultaneously in a window picture.
You can enjoy the convenience of the "picture-in-picture" function when there are two TV channels you want to watch at the same time or when you want to monitor your VCR while watching TV, etc.



To display a TV program in a window

Press PIP.



The window picture in the last mode you watched will appear. Each time PIP is pressed, a 1/4-size or 1/9-size window picture will appear alternately.

To hear the sound for the window picture
Press AUDIO.
To hear the sound for the main picture, press AUDIO again.
- The sound of the window picture is also output from the VARIABLE AUDIO OUT.
  (The MONITOR OUT outputs the sound of the main picture only.)
- The sound for the window picture is monaural when you use the RFU output.
- When you press AUDIO, the "♪" indication appears and you can know the sound comes from which.

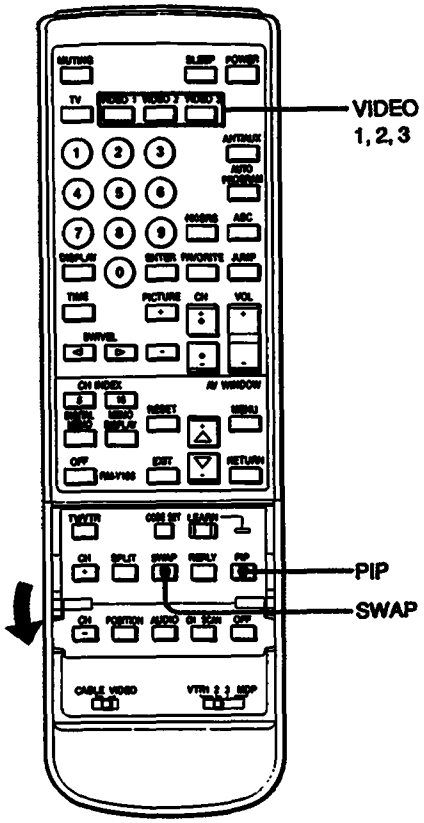
To swap the main and the window pictures
Press SWAP.

Notes

To make the window picture disappear
Press OFF.

To scan programs in the window picture
Press CH +/– in the picture-in-picture area.

Notes on the window picture
- In the window picture, the VIDEO LABEL and CHANNEL CAPTION will not appear even if you have set them.
- If a window picture is blocked, the "B" indication will appear on the window screen. (See page 56.)



Note

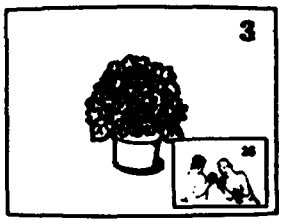
With the supplied Remote Commander
You cannot control VCR without settings.

Watching a Window Picture (continued)

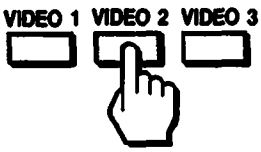
To display VIDEO input picture in a window

You can watch VIDEO input picture (either playback picture or TV program from VCR tuner) using picture-in-picture.
If you want to control your VCR with the supplied Remote Commander, see page 59.

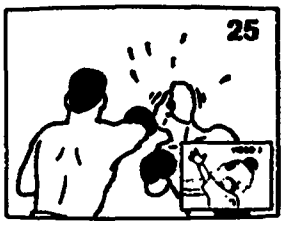
1 Press PIP.



2 Press VIDEO 1, 2, or 3 to select the desired input mode.
You can only change the VIDEO input mode in the main picture.



3 Press SWAP so that the VIDEO input picture becomes a window picture.

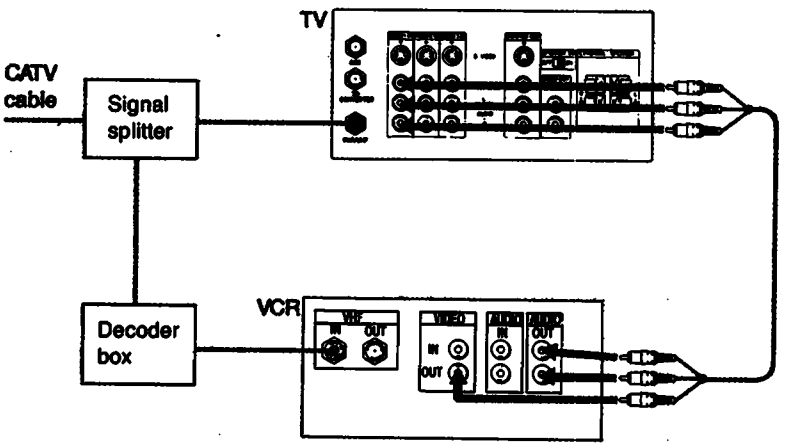


To change the VIDEO input mode, press SWAP again to swap with the main picture.

To display pay cable TV in a window

If you use a cable converter box, make proper connection for using picture-in-picture first.

Connection



Operation

Steps 1 – 3: same as in "To display VIDEO input picture in a window" (page 38).

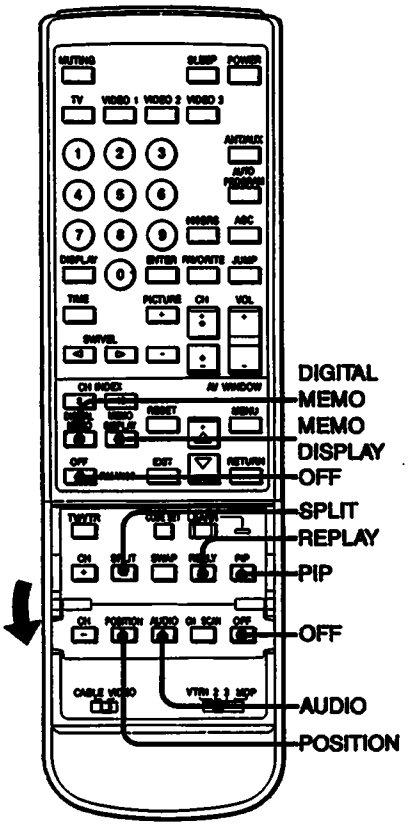
4 Put your VCR on an inactive channel (3CH or 4CH).

5 Change pay cable TV channels with the decoder box.

Notes

If you want to control your VCR or decoder box with the supplied Remote Commander
See page 59 and 62.

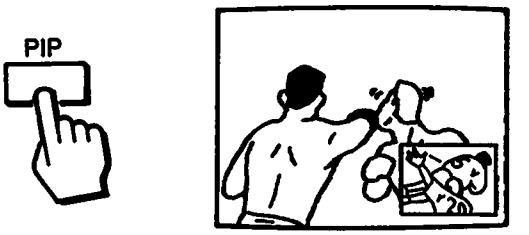
If you connect your decoder box to the AUX terminal
You can watch the SPLIT and REPLAY picture only.



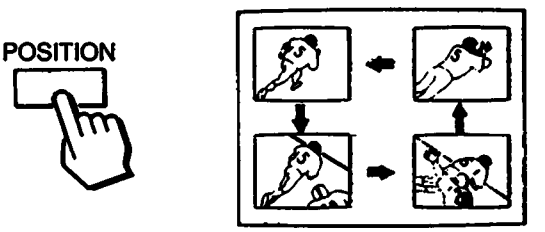
Advanced Operation of a Window Picture

To change the position of a window picture

1 Press PIP.

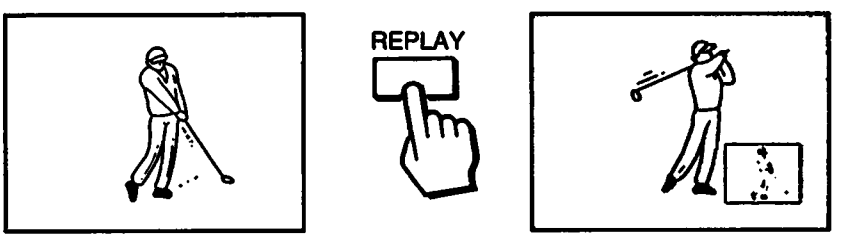


2 Press POSITION.
Each time you press POSITION, the window picture will move as illustrated.



To replay the main picture displayed 2 seconds before in the window picture

Press REPLAY.



To make the replay picture disappear, press OFF.

Note

On replay picture
The replay picture is always displayed in 1/9 size.

To be continued ▶

To store a TV picture

You can store a desired picture in the memory of this TV. You can recall the stored picture.
Storing the picture is convenient when you want to write down a recipe of a cooking program or a displayed toll free number, etc.

Press DIGITAL MEMO.
The TV picture will be stored.

To restore the normal picture

Press MEMO DISPLAY.

When you press MEMO DISPLAY, the screen changes from the stored picture to the normal picture.

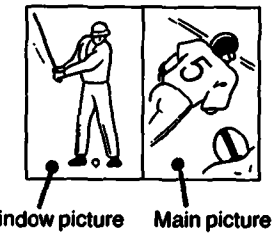
To recall the stored picture

Press MEMO DISPLAY again.

The memory of the stored picture is kept except for the following cases:
— when the TV is turned off.
— when another picture-in-picture function is used.
— when you press OFF twice.

To split the screen between the main picture and the window picture

Press SPLIT.

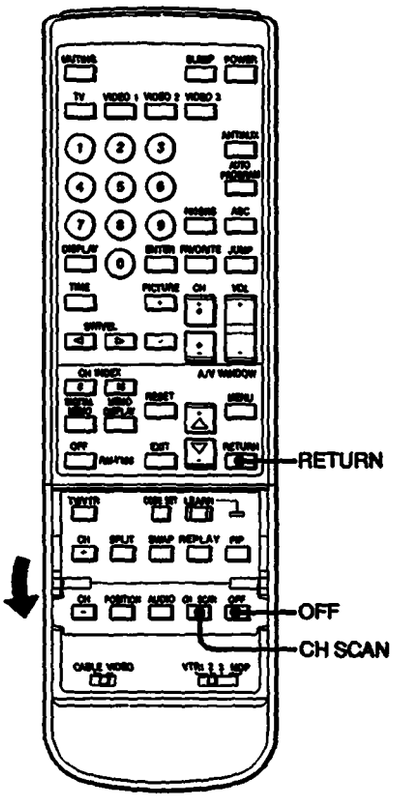


Notes

To make the window picture disappear
Press OFF.

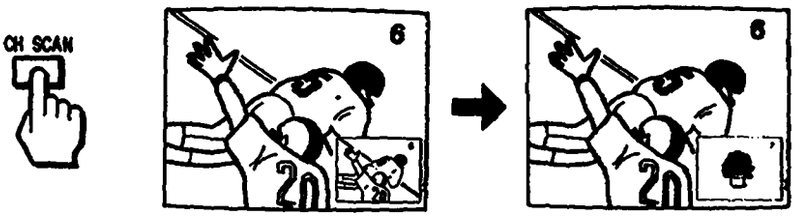
To hear the sound for the window picture
Press AUDIO.

When using the split-screen feature
Vertical lines may appear to you to be elongated.



Scanning Other Channels

Press CH (channel) SCAN.



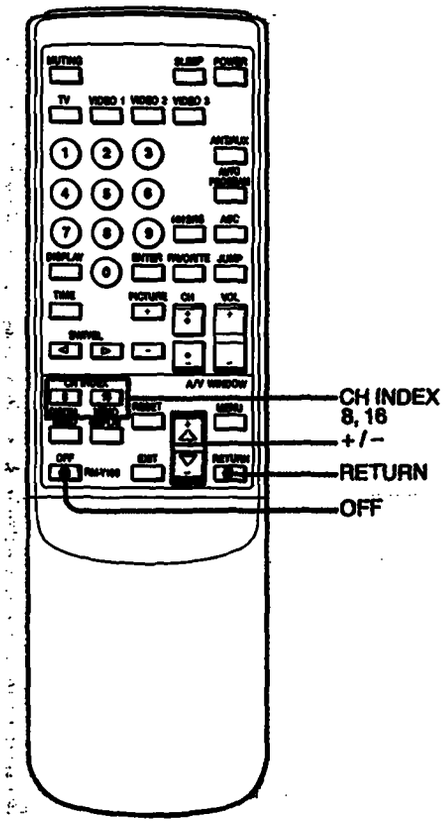
Each channel appears in the window picture for 3 seconds sequentially.

To watch the channel in the window picture continuously.
Press RETURN while the desired channel is in the window picture.

Press RETURN.

To cancel CHANNEL SCAN
Press OFF.

To be continued ▶



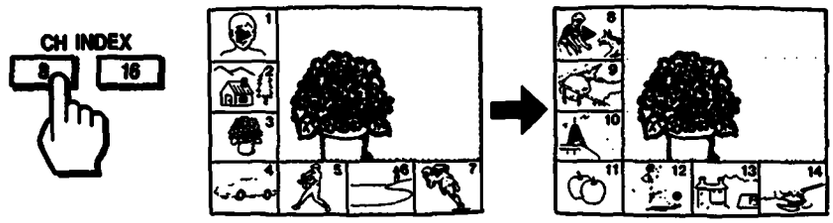
Note

When you use the CH INDEX 8 function, part of the main picture is covered by the window pictures.

Watching Several Window Pictures Simultaneously

To display 8 different channels (the main picture and 7 window pictures)

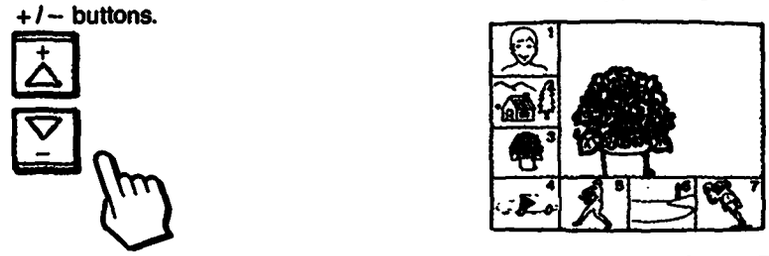
Press CH INDEX 8.



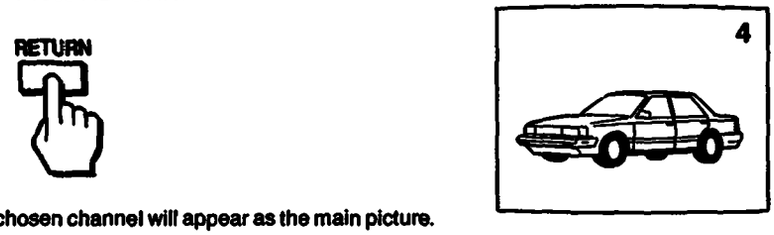
Programs of seven TV channels appear in numerical sequence as window pictures. Each time you press CH INDEX 8, the next seven sequential channels will appear.

To watch one of the window pictures

1 *Position ▷ in the window screen of the desired channel by pressing the +/– buttons.*

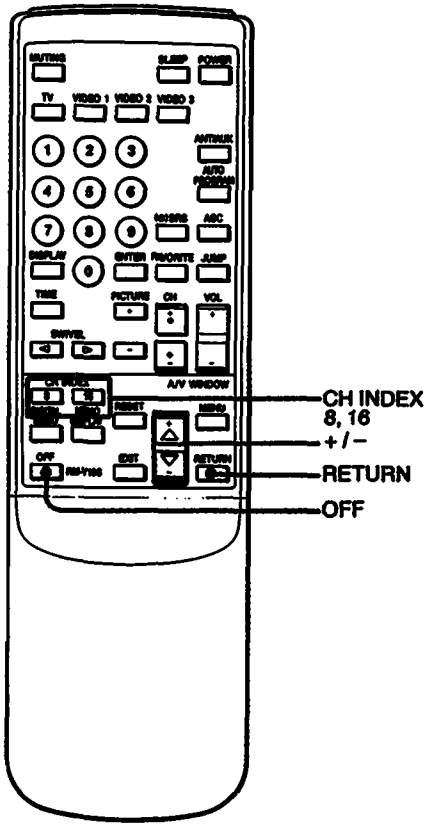


2 *Press RETURN.*



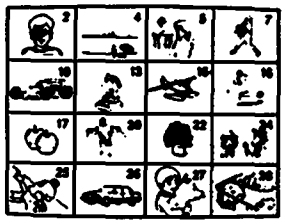
The chosen channel will appear as the main picture.

To cancel CH INDEX 8, press OFF.



To display 16 different channels as window pictures

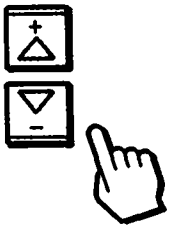
Press CH INDEX 16.

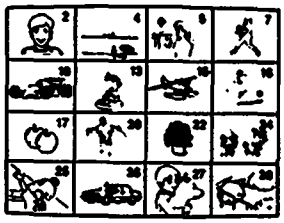


Programs of 16 different TV channels appear in numerical sequence as window pictures. Each time you press CH INDEX 16, the next 16 channels will appear.

To watch one of the window pictures

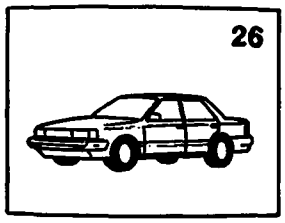
1 Position ▷ in the window screen of the desired channel by pressing the +/– buttons.





2 Press RETURN.

The chosen channel will appear.

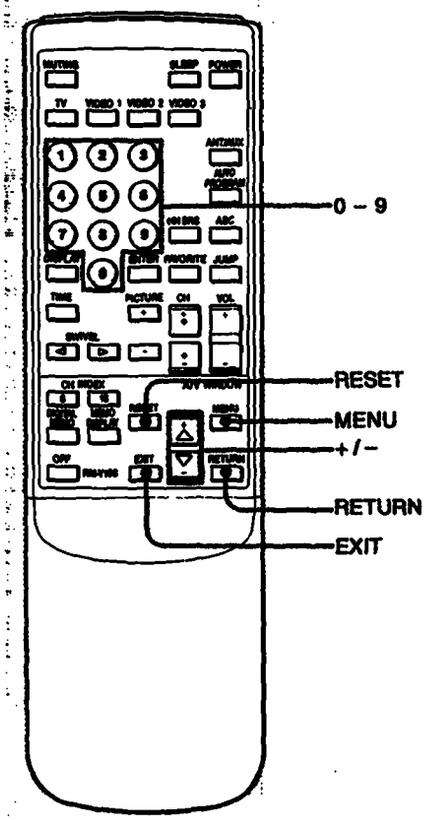


To cancel CH INDEX 16, press OFF.

Setting up on the Screen

To be continued ▶

You can call up the on-screen menu and instructions on how to set the clock, to label each video input mode, or to caption the TV stations.



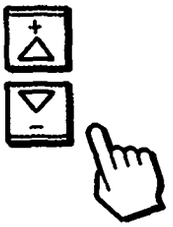
Setting the Clock

Example: To set the time to 3:15 PM, Monday.

1 Press MENU

```
   A/V WINDOW

  ▶VIDEO
    AUDIO
    GUIDE
    SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press + / – until ▷ points to SET UP.



```
   A/V WINDOW

    VIDEO
    AUDIO
    GUIDE
  ▶SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

3 Press RETURN.

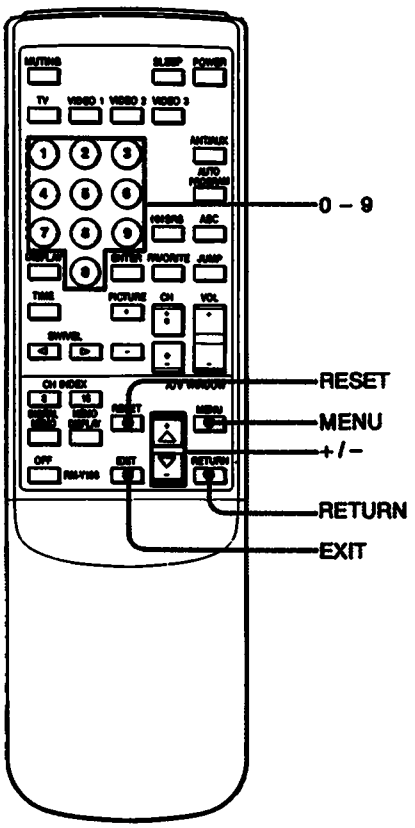
```
     SET UP
▶TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
```

4 Press RETURN again to select "TIME SET".

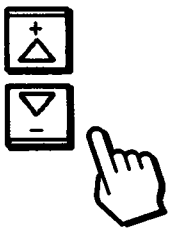
```
  CURRENT TIME SET

SUN __:__ AM


Select today's
day.
Use[△ ▽]&[RETURN]
```

Notes

- If you unplug the TV, or if a power failure occurs, all settings will be erased from the TV's memory.
- If you have not set the clock correctly, the ON/OFF TIMER and CHANNEL BLOCK will not operate.



5 Press + / – until the day of the week you want to set appears.

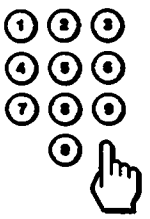


```
CURRENT TIME SET

MON __:__ AM

Select today's
day.
Use[Δ ∇]&[RETURN]
```

6 Press RETURN.

```
CURRENT TIME SET

MON__ __:__ AM

Set the current
time.
Use[ 0-9 ]&[RETURN]
```

7 Press 0 – 9 to set the desired time.
(For 3:15, press 0 3 1 5)

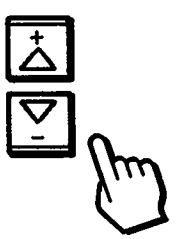


```
CURRENT TIME SET

MON_3 : 15 AM

Set the current
time.
Use[ 0-9 ]&[RETURN]
```

8 Press RETURN.

```
CURRENT TIME SET

MON  3 : 15 AM


Set AM or PM.
Use[Δ ∇]&[RETURN]
```

9 Press + / – to set AM or PM.



```
CURRENT TIME SET

MON  3 : 15 PM


Set AM or PM.
Use[Δ ∇]&[RETURN]
```

Note

On the clock
The internal clock of this TV operates on a 12-hour cycle. If you enter 24-hour cycle number, it will be cleared when you press RETURN.

12:00 AM stands for midnight. 12:00 PM stands for noon.

To be continued ▶

10 Press RETURN.

```
CURRENT TIME SET

MON  3 : 15  PM


Current time is
set. Thank you.
```

The moment you press RETURN, the clock starts.
Now the time is set. The indication will disappear after approx. 10 seconds.

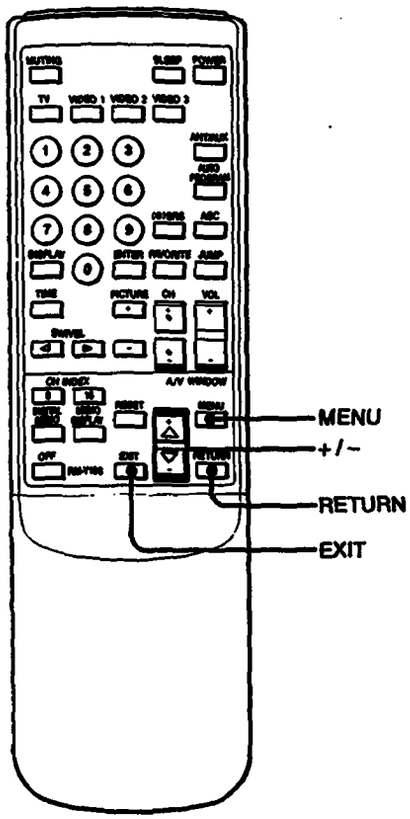
Notes

To restore the normal picture
Press EXIT.

To clear the current time setting
Display the "CURRENT TIME SET" page and press RESET, then EXIT.

To reset the setting
Display the "CURRENT TIME SET" page and press RESET, then repeat steps 5 to 10.

To display the current time
Press TIME.



Labeling Each Video Input Mode

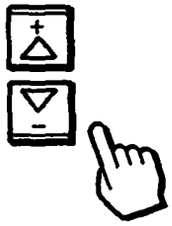
You can label each input mode as VTR, S VIDEO, or LD to easily identify what equipment is connected to which input terminal.
When you enter the label, the TV automatically adjusts itself internally to enhance the picture quality for the labeled equipment.

Example: Label VIDEO 1 with S VIDEO.

1 Press MENU

```
   A/V WINDOW

  ▶VIDEO
    AUDIO
    GUIDE
    SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press + / – until ▷ points to "SET UP".

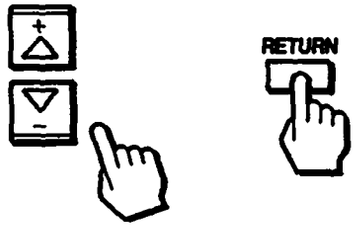


```
   A/V WINDOW

    VIDEO
    AUDIO
    GUIDE
  ▶SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

3 Press RETURN.

```
      SET UP
▶TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
```

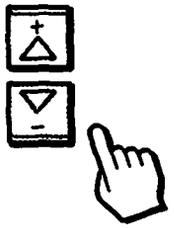
4 Press + / – until ▷ points to "VIDEO LABEL", then RETURN.




```
      SET UP
  TIME SET
▶VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
```

To be continued ▶

5 Press +/ – until ▷ points to your desired input terminal.



```
VIDEO LABEL

▶VIDEO 1: VIDEO 1
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 DIRECT PLAY
```

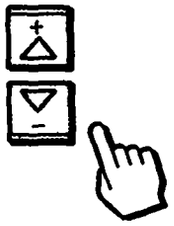
6 Press RETURN.

```
VIDEO LABEL

▶VIDEO 1: VIDEO 1
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 DIRECT PLAY
```

7 Press RETURN.
Then "VIDEO 1" on the right *turns red.*

```
VIDEO LABEL

 VIDEO 1: VIDEO 1
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 DIRECT PLAY
Use[△ ▽]&[RETURN]
to select.
```

8 Press + / – until the label you want appears.



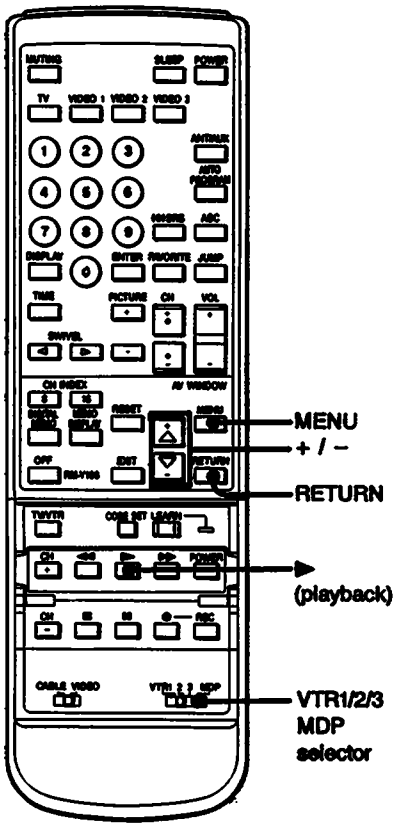
```
VIDEO LABEL

 VIDEO 1: S VIDEO
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 DIRECT PLAY
Use[△ ▽]&[RETURN]
to select.
```

9 Press RETURN.

```
VIDEO LABEL

▶VIDEO 1: S VIDEO
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 DIRECT PLAY
```

If you want to label VIDEO 2 or 3, repeat steps 5–9.
Now, VIDEO LABEL is set.

To restore the normal picture
Press EXIT.



Direct Play Function

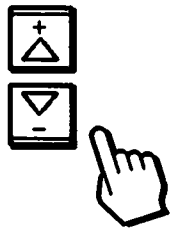
With this function, you can change the input mode from TV to VCR by pressing the ▶ (playback) button on the supplied Remote Commander.

Example: When you connect your VCR to the VIDEO 1 IN jacks and control the VCR when the VTR1/2/3 MDP selector is set to VTR2 on the supplied Remote Commander.

First, the TV needs to memorize the VTR selector position on the Remote Commander which you use to control your VCR.

Step1-4: Same as in "Labeling Each Video Input Mode" (page 48.)

5 Press + / – until ▷ points to "DIRECT PLAY".



```
VIDEO LABEL

VIDEO 1: S VIDEO
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
▶DIRECT PLAY
```

6 Press RETURN.

RETURN

If you have not set the manufacturer's code yet, see page 60 and set it. (When you use Sony video equipment, this setting is not necessary. For details, see page 59)

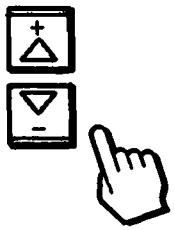
```
DIRECT PLAY

Program your
remote with
"pre-set code"
before using
DIRECT PLAY
feature.
```

7 Press RETURN

RETURN

```
DIRECT PLAY

▶VIDEO 1: OFF
VIDEO 2: OFF
VIDEO 3: OFF
VIDEO LABEL
```

8 Press +/ – until ▷ points to your VCR input.
(If you connected your VCR to VIDEO 1 IN jacks, make ▷ point to "VIDEO 1".)

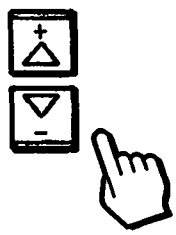


```
DIRECT PLAY

▶VIDEO 1: OFF
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
```

9 Press RETURN.

```
DIRECT PLAY

 VIDEO 1: OFF
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
Use[Δ ▽]&[RETURN]
to select.
```

10 Press +/ – until the VTR selector mode that you control your VCR at appears.
(If you control your VCR at VTR 2 in the Remote Commander, make "VTR 2" appear.)



```
DIRECT PLAY

 VIDEO 1: VTR2
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
Use[Δ ▽]&[RETURN]
to select.
```

11 Press RETURN.

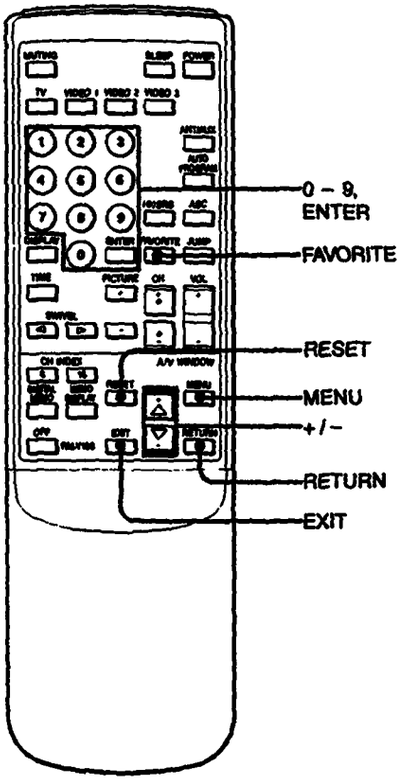
```
DIRECT PLAY

▶VIDEO 1: VTR2
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
```

If you connect other video equipment, repeat steps 8-11.
Now, direct play setting is set.

When you are watching a VCR picture, as you press the ▶ (playback) button, the input mode changes from TV to VCR.
Example: When you set the VTR1/2/3 MDP selector to VTR2 and press ▶, the input mode changes to the VCR that is connected to the VIDEO 1 IN jacks.

Note

To restore the normal picture
Press EXIT.



Captioning the TV Stations

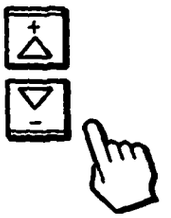
You can assign a station name using up to four characters to up to 32 program positions to identify the received channel for display on the screen together with the program position number.

Example: To assign "ABC" to channel 15.

1 Press MENU.

```
A/V WINDOW

▶VIDEO
  AUDIO
  GUIDE
  SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press + / – until ▷ points to "SET UP".

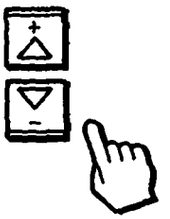


```
A/V WINDOW

  VIDEO
  AUDIO
  GUIDE
▶SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

3 Press RETURN.

```
    SET UP
▶TIME SET
  VIDEO LABEL
  CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
```

4 Press + / – until ▷ points to "CHANNEL CAPTION".



```
    SET UP
  TIME SET
  VIDEO LABEL
▶CHANNEL CAPTION
  CHANNEL ERASE
  CHANNEL ADD
  CABLE: ON
```

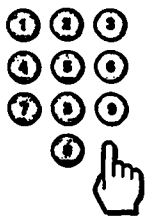
Note
When the memory is full, the indication "The memory is full, sorry" appears.
In this case, clear the unnecessary settings.

5 Press RETURN.

RETURN

```
CHANNEL        ---
CAPTION        ____

Enter the CH to
be captioned.
Use[0-9]&[ENTER].
```

6 Press 0 – 9 to set the channel to be captioned.
(For 15, press 1, then 5.)



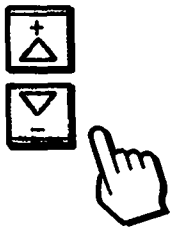
```
CHANNEL         15
CAPTION         ____

Enter the CH to
be captioned.
Use[0-9]&[ENTER].
```

7 Press ENTER.

ENTER

```
CHANNEL         15
CAPTION         ____

Select the 1st
letter.
Use[△ ▽]&[RETURN]
```

8 Press + / – until the letter or number you want appears.



```
CHANNEL         15
CAPTION         A___

Select the 1st
letter.
Use[△ ▽]&[RETURN]
```

9 Press RETURN.

RETURN

```
CHANNEL         15
CAPTION         AB__

Select the 2nd
letter.
Use[△ ▽]&[RETURN]
```

10 Repeat steps 8 and 9 for selecting other letters.
(For "ABC", select "B", "C", then select blank.)
Now the CHANNEL CAPTION is set.
If you want to caption more stations, press RETURN.

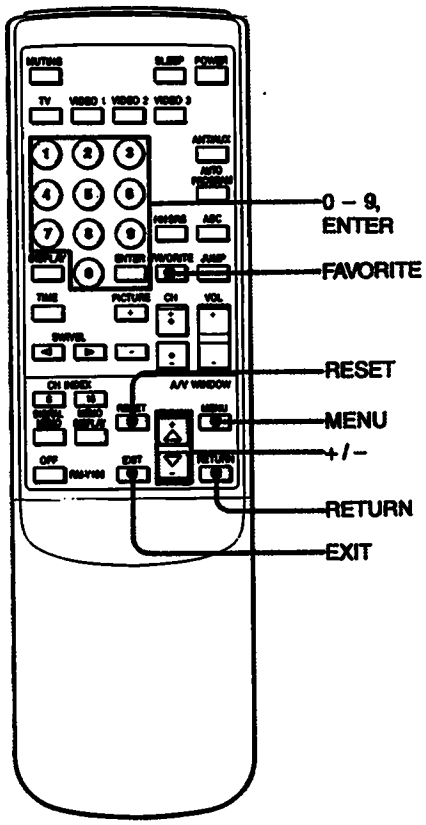
```
CHANNEL         15
CAPTION         ABC

Press [RETURN]
to continue.
```

Notes

To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL CAPTION" page and press RESET, then EXIT.

Setting Timer-Activated Functions



Setting the ON/OFF Timer

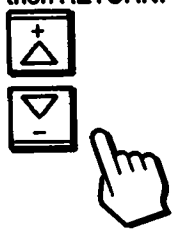
You can make three programs of your choice appear on the screen at the desired time with the ON/OFF timer.
Example: Set the timer to turn on the TV to channel 8 at 1:30 AM for 3 hours every Monday through Friday as PROGRAM 1.

1 Press MENU.

MENU

```
A/V WINDOW

▶VIDEO
  AUDIO
  GUIDE
  SET UP
Use[△ ▽]&[RETURN]
[EXIT] to quit.
```

2 Press + / – until ▷ points to "GUIDE", then RETURN.



RETURN

```
GUIDE

▶ON/OFF TIMER
  CHANNEL BLOCK
  FAVORITE CHANNEL
  DEGAUSS
```

* "DEGAUSS" appears on KV-29XBR85 only.

3 Make sure ▷ points to "ON/OFF TIMER", then press RETURN.

RETURN

```
★ ON/OFF TIMER

▶PROGRAM 1:
  PROGRAM 2:
  PROGRAM 3:
```

4 Make sure ▷ points to "PROGRAM 1" (for PROGRAM 2 and 3, press + / – to select the desired one), then press RETURN.

RETURN

```
★ ON/OFF TIMER 1

__ : __ AM
_H
CH____
Select the day.
Use[△ ▽]&[RETURN]
```

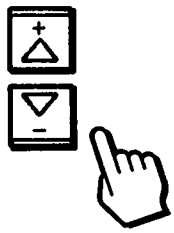
Notes

To restore the normal picture
Press EXIT.

To clear the setting
Display the "ON/OFF TIMER" page and press RESET, then EXIT.

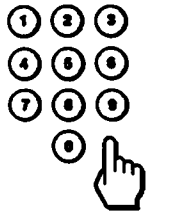
To be continued ▶

5 Press + / – until the day of the week you want appears, then press RETURN.



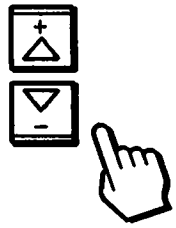
```
ON/OFF TIMER 1

EVERY SUN-SAT
      :    AM
_ H
CH____
Set the time.
Use[ 0-9 ]&[RETURN]
```

6 Press 0 – 9 to set the time you want, (For 1:30, press 0 1 3 0.) then press RETURN.



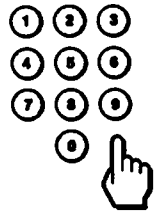
```
ON/OFF TIMER 1

EVERY SUN-SAT
   1  : 30 AM
_ H
CH____
Set AM or PM.
Use[△ ▽]&[RETURN]
```

7 Press + / – to set AM or PM, then RETURN.



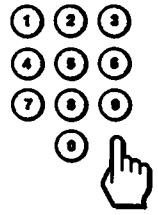
```
ON/OFF TIMER 1

EVERY SUN-SAT
   1  : 30 AM
_ H
CH____
Set the duration.
Use[ 0-9 ]&[RETURN]
```

8 Press 1 – 9 to set the duration, then RETURN.



```
ON/OFF TIMER 1

EVERY SUN-SAT
   1  : 30 AM
 3 H
CH
Set the channel.
Use[ 0-9 ]&[RETURN]
```

9 Press 0 – 9 to set the channel number you want, then RETURN.



```
ON/OFF TIMER 1
:
EVERY SUN-SAT
  1  : 30  AM
 3 H
CH  8
Press [RETURN]
to continue.
```

If you want to set program 2 or 3, press RETURN and repeat steps 4 – 9.

Notes

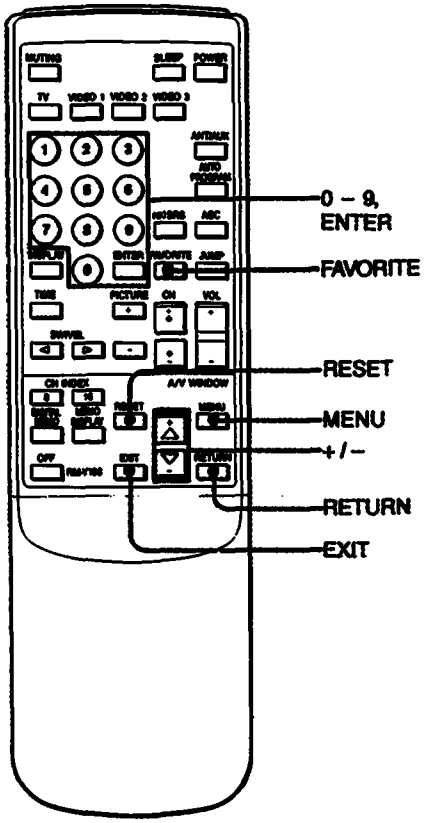
If you have not set the CURRENT TIME yet
The following message will appear.
Go back to page 45 to set the clock.

```
Current time is
not set.

Press [RETURN]
to set the time.
```

The selectable days of the week
When you press +, the selectable days of the week will appear in the following order:

- EVERY SUN-SAT
- EVERY MON-FRI
- SUNDAY
- MONDAY
- TUESDAY
- WEDNESDAY
- THURSDAY
- FRIDAY
- SATURDAY
- EVERY SUNDAY
- EVERY MONDAY
- EVERY TUESDAY
- EVERY WEDNESDAY
- EVERY THURSDAY
- EVERY FRIDAY
- EVERY SATURDAY

Press – for reverse direction.



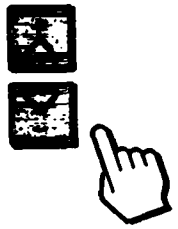
Setting the Channel Block

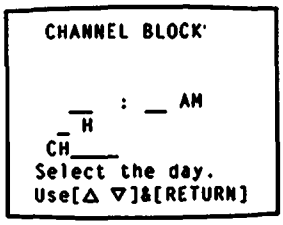
CHANNEL BLOCK prevents a channel from appearing on the screen for preset hours. We suggest you to use this function to prevent children from watching undesirable programs.

Example: Set the CHANNEL BLOCK at 4:00 PM (for 1 hour), every Saturday, on channel 12.

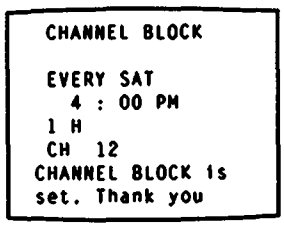
Step 1 – 2: Same as in "Setting the ON/OFF Timer". (See page 54.)

3 Press + / – until ▷ points to "CHANNEL BLOCK", then RETURN.

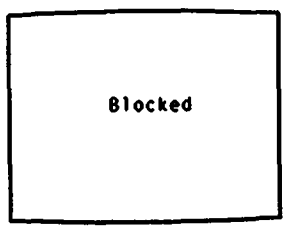




Step 5* – 9: Same as in "Setting the ON/OFF Timer." (See page 54.)
*Step 4 is not necessary for the channel block operation.



Now CHANNEL BLOCK is set.
The picture of the selected channel will be blocked from viewing and the sound will be muted, at the preset time. A red "Blocked" indication will appear on the screen while the channel is blocked.



Notes

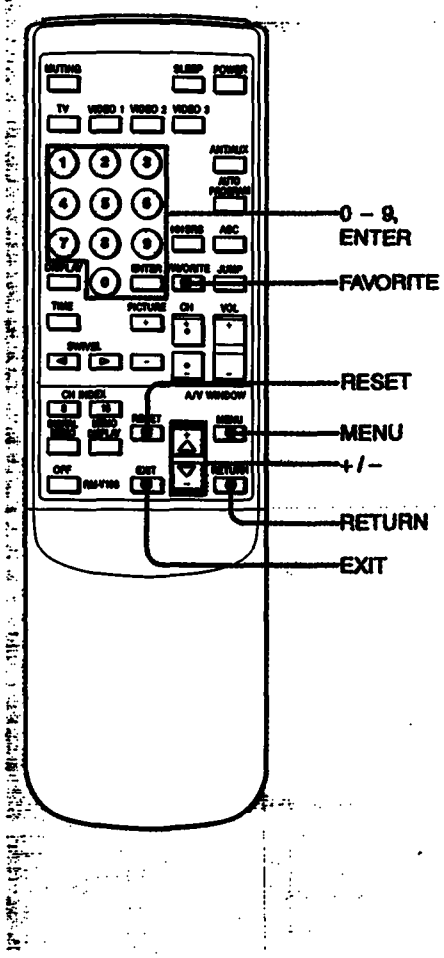
To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL BLOCK" page and press RESET, then EXIT.

To reset the setting
Display the "CHANNEL BLOCK" page and repeat the steps from the beginning.

Setting Your Favorite Channels

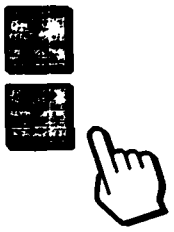
To be continued ▶



By setting your favorite channels (maximum 5 channels), you will be able to choose them quickly just by pressing the FAVORITE button. First, store your favorite channels.

Step 1 – 2: Same as in "Setting the ON/OFF Timer". (See page 54.)

3 Press + / – until ▷ points to "FAVORITE CHANNEL".

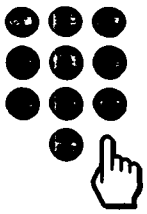


```
      GUIDE

ON/OFF TIMER
CHANNEL BLOCK
▶FAVORITE CHANNEL
DEGAUSS
```

4 Press RETURN.

```
FAVORITE CHANNEL
      ---
      ---
      ---
      ---
      ---
Use[0-9]&[ENTER].
[RETURN] to set.
```

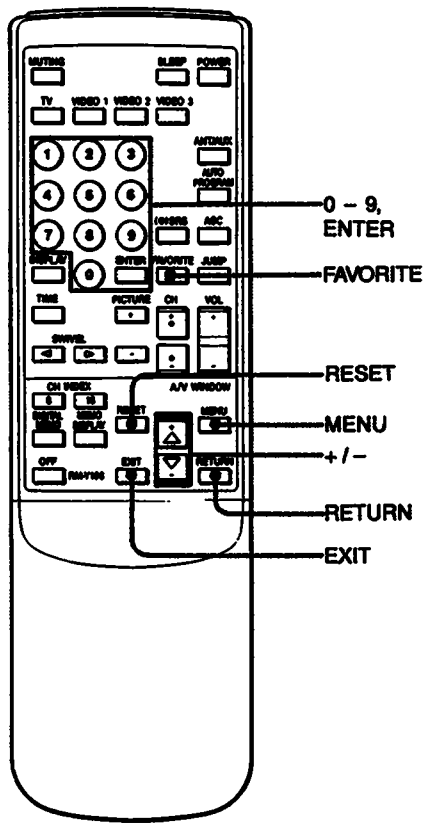
5 Press 0 – 9 to set the channel number you want.



```
FAVORITE CHANNEL
      36
      ---
      ---
      ---
      ---
Use[0-9]&[ENTER].
[RETURN] to set.
```

6 Press ENTER.

```
FAVORITE CHANNEL
      36
      ---
      ---
      ---
      ---
Use[0-9]&[ENTER].
[RETURN] to set.
```



7 Repeat steps 5 and 6 for the rest of the channels.
If you do not want to store any more channels, you can go to step 8.

```
FAVORITE CHANNEL
        36
         2
       _ _
       _ _ _
       _ _ _
       _ _ _
Use[0-9]&[ENTER].
[RETURN] to set.
```

8 Press RETURN.
Now the FAVORITE CHANNEL is set.

RETURN

```
FAVORITE CHANNEL
        36
         2
        42
        55
        19
FAVORITE CH is
set. Thank you.
```

After setting your favorite channels
Each time you press FAVORITE, the channels will appear sequentially.

Notes

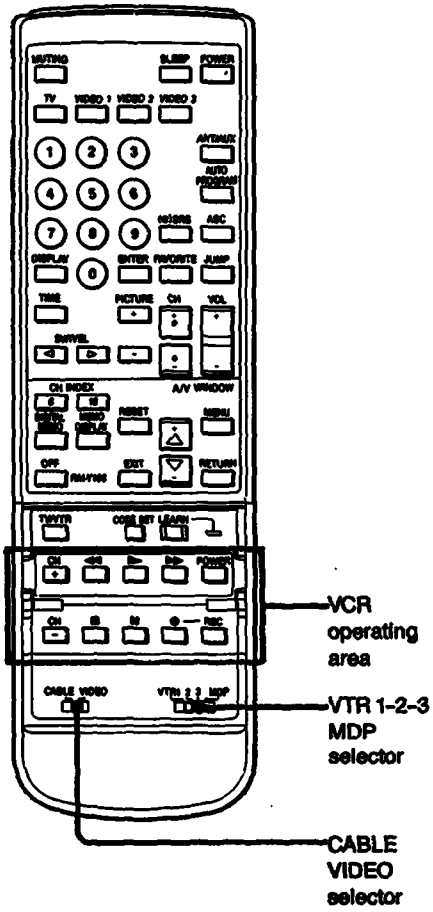
To restore the normal picture
Press EXIT.

To clear the setting
Display the "FAVORITE CHANNEL" page and press RESET, then EXIT.

To reset the setting
Display the "FAVORITE CHANNEL" page and repeat the steps from the beginning.

Using the Programmable Remote Commander *To be continued ▶*

You can operate other remote controlled video equipment using the supplied RM-Y106/Y107/Y108 Remote Commander. The supplied Remote Commander is programmed to operate Sony video equipment. In addition, you can reprogram this Remote Commander to operate non-Sony equipment.

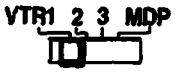


Operating Sony Video Equipment

With the supplied Remote Commander, you can operate Sony video cassette recorders (Beta, 8mm VHS) and video disc players (including multi disc player) without programming.

1 Set the CABLE/VIDEO selector to VIDEO.

2 Set the VTR 1/2/3/MDP selector according to the video equipment you want to operate.



If you want to operate A:	then set to
Beta, ED Beta VCR	VTR 1
8mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

3 Use the buttons in the video operating area to operate the video equipment.

Operating a video cassette recorder

To record	Press ●.
To start playback	Press ▶.
To stop	Press ■.
To advance the tape rapidly	Press ▶▶.
To rewind the tape	Press ◀◀.
To freeze a picture	Press ❚❚. To resume normal playback, press again.
To view the picture at a fast speed to find a particular scene	Keep pressing ▶▶ or ◀◀ during playback. To resume normal playback, release the button.

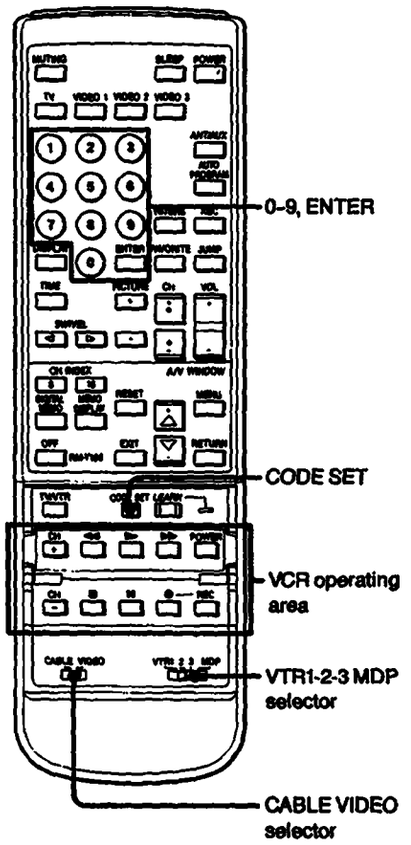
If the equipment does not have a certain function, the corresponding button on this Remote Commander is not effective.

Operating a video disc player

To start playback	Press ▶.
To stop	Press ■.
To freeze a picture	Press ❚❚. To resume normal playback, press again. This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the video disc player will go into the standby mode if ❚❚ is pressed.
To view the picture at a fast speed to find a particular scene	Keep pressing ▶▶ or ◀◀ during playback. To resume normal playback, release the button.

Note

After setting other manufacture's code
You cannot operate Sony video equipment with the supplied Remote Commander without setting the Sony.



Operating Non-Sony or Sony Video Equipment (Pre-programmed Function)

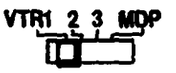
The supplied Remote Commander has pre-programmed functions. Thus you can operate non-Sony video equipment with the supplied Remote Commander by setting the manufacturer's code.

Setting the manufacturer's code

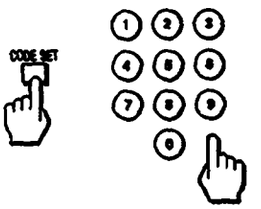
1 Set the CABLE/VIDEO selector to VIDEO.

2 Set the VTR1/2/3/MDP selector to the position that you want to operate the equipment at.

By employing the VTR 1/2/3 settings, you can use your remote commander to operate up to 3 pieces of equipment.
Note: If you also use Sony video equipment, set other maker's equipment to a position not being used for your Sony video equipment.



3 While pressing CODE SET, press manufacture's code numbers (See table).



4 Press ENTER.

The LEARN indicator turns green and then goes off. (A long beep)
Now you can operate the non-Sony video equipment with the supplied Remote Commander.

5 Use the video operating buttons to operate video equipment.

Note

You may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the remote control unit provided with the non-Sony equipment.

To be continued ▶

Manufacturers and their code numbers (video cassette recorder)

Manufacturer	Code number
Sony	01, 02, 03
Canon	05
Emerson	22, 30, 33
Fisher	10, 11, 12, 15
Funai	29
General Electric	05, 08
Goldstar	25
Hitachi	07, 08
JVC	16
Magnavox	05, 06, 09
Mitsubishi	18, 19, 26, 27
Multitech	29
NEC	16, 23, 31
Panasonic	05, 06
Philco	05, 06
Philips	05, 06, 09
Quasar	05, 06
RCA	07, 08
Samsung	24, 32
Sanyo	11, 15
Scott	21
Sharp	13, 14
Shintom	34
Sylvania	05, 06, 09
Symphonic	29
Teknika	28, 29
Toshiba	20, 21
Tote vision	25
Zenith	17

Manufacturers and their code numbers (video disc player)

Manufacturer	Code number
Sony	04
Kenwood	58
Magnavox	52
Maranz	54
Mitsubishi	51
Panasonic	55
Philips	52
Pioneer	51
RCA	51
Sanyo	57
Sharp	56
Yamaha	53

Notes

On the code number

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number previously entered at that setting will be erased.

On Sony's code number

The number and operable equipment are as follows:

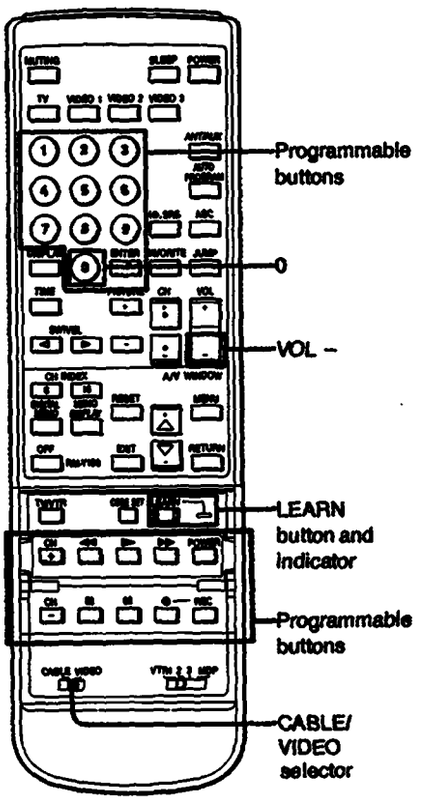
01 : Beta
02 : 8 mm
03 : VHS
04 : MDP

For your convenience

You can write the operable manufacturer and its code number in the supplied seal and stick it on the rear of the Remote Commander.

Operating non-Sony or Sony Audio and Video Equipment (Learning Function)

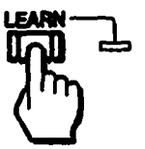
With this feature, you can "teach" any of the programmable buttons to operate one function each of another remote commander. Use the Learning function to program the supplied remote commander to operate non-Sony and Sony audio equipment, your remote controlled cable decoder box, and video equipment of manufacturers not listed in the chart on p. 61.



1 Set the CABLE/VIDEO selector to CABLE.

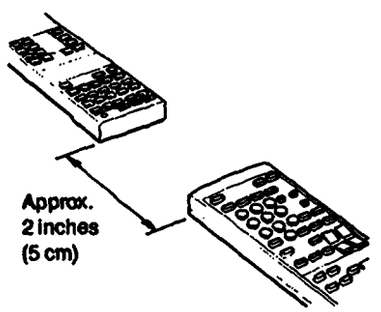
2 Face this Remote Commander with the other remote commander head to head, approximately 2 inches (5 cm) apart.

3 Press LEARN.
The LEARN indicator lights up in green.



4 Momentarily press the button of this Remote Commander on which a function is to be memorized.
The LEARN indicator lights up in red. (A short beep).
Now it's ready for learning.

The Remote Commander beeps repeatedly if there is inappropriate operation. Try again from this step.



5 Keep pressing the function button of the other remote commander until the LEARN indicator turns to green again. (A long beep)
If this does not happen, the learning process has not been completed. Repeat steps 4 and 5.

6 To program other buttons, repeat steps 4 – 5.

7 Press LEARN.
The LEARN indicator lights up in red, then goes off.
Now the setting is complete.

Note

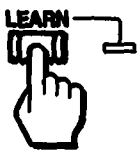
For accurate learning
Do not move the remote commanders during the learning process.

To be continued ▶

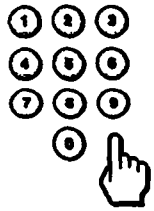
Clearing memorized functions

1 Set the CABLE/VIDEO selector to CABLE.

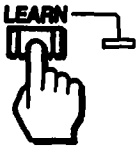
2 Press LEARN.
The LEARN indicator lights up in green.



3 Press VOLUME –.
Keep pressing the VOLUME – button and "0" at once until 6 short beeps are heard.



4 Press LEARN.
Now all the memorized functions are cleared.



The learning function will not work in the following cases:

Problems:	Solutions:
There is a fluorescent lamp or equipment which emits infrared energy.	Move the remote commanders away from such infrared sources.
The batteries are exhausted.	Replace all the batteries with new ones.
There is an obstacle between the Remote Commanders, or the Remote Commanders are not positioned head to head and exactly aligned.	Position the Remote Commanders properly.

Notes

On learning Function

- When you clear the memorized functions, the buttons retain their factory set memory.
- Be sure to confirm that the functions have been memorized as a few commanders of other manufacturers are not compatible with this Remote Commander.
- Do not use the learning function for other than video and audio equipment.
- When operating equipment with learned functions, the selectors should be set to the same position as they were when the functions were memorized.
- When a new function is assigned to a button, the previous function is cleared automatically.
- When the memories are full, the LEARN indicator lights steadily if you try to memorize a new function.
  In such a case, set the USE/LEARN selector to USE to turn the indicator off, then clear the unnecessary functions.

Caution

When replacing the batteries, do it within approximately 30 minutes. Otherwise, the memorized functions may be erased.

If You Have any Trouble

You can eliminate disturbances in picture and sound by checking the symptoms and following the suggestions listed below.

Problem	Check and Adjust
Poor or no picture (Screen not lit), good sound	• Adjust PICTURE. • Adjust BRIGHT. • Check antenna/cable connections.
Good picture, no sound	• Press VOLUME + on the TV or VOL + on the Remote Commander. • Press MUTING on the Remote Commander. • Check that the MTS button is set correctly. • Check that the TV/VIDEO or input select button is set correctly. • Set the SPEAKER SW (switch) to ON.
No picture (screen not lit), no sound	• Is POWER switched on? • Plug the unit into a wall outlet. • Check that the TV/VIDEO or input select button is set correctly.
No color	• Is it a color program? • Adjust COLOR.
Snow and noise only	• Is it an active or the correct channel? • Check the CABLE setting. • Check the ANT/AUX button setting. • Check antenna/cable connections.
Learning function on the commander does not work.	• Check the USE/LEARN selector setting. • Check that the Remote Commanders are positioned properly. • Check to see if the batteries are exhausted. • If there is a fluorescent lamp near by, move the Remote Commanders away from it.
Dotted lines or stripes	This is often caused by local interference. (e.g. cars, neon signs, hairdryers, etc.) Adjust the antenna for minimum interference.
Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. A highly directional outdoor antenna or a CATV cable may improve the picture. Try another channel. It could be station trouble. If the problem persists, contact your nearest service facility.

Specifications

To be continued ▶

Television system American TV standards

Channel coverage
VHF: 2 – 13
UHF: 14 – 69
Cable TV: 1 – 125

Picture tube
Microblack Trinitron tube
27-inch picture measured diagonally
28-inch picture tube measured diagonally
(KV-27XBR51/27XBR55)
29-inch picture measured diagonally
31-inch picture tube measured diagonally
(KV-29XBR85)
32-inch picture measured diagonally
34-inch picture tube measured diagonally
(KV-32XBR51/32XBR55/32XBR75)

Antenna 75-ohm external antenna terminal for VHF/UHF

Input
VIDEO 1, 2 and 3 IN
S VIDEO IN (4-pin mini DIN)
Y: 1 Vp-p, 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal) 75-ohms
Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
Audio (phono jacks): 500 mVrms (100% modulation)
Impedance: 47 kilohms

Output
MONITOR OUTPUT
S VIDEO OUTPUT (4-pin mini DIN)
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal) 75-ohms
Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
Audio (phono jacks): 500 mVrms (100% modulation)
Impedance: 10 kilohms
AUDIO OUTPUT (VARIABLE) (phono jacks)
More than 408 mVrms at the maximum volume setting (variable)
Impedance: 5 kilohms

Speaker output (KV-27XBR51/32XBR51/27XBR55/32XBR55)
Main speakers
5W × 2: 8-ohm minimum
Super woofer
20W: 8-ohm minimum

Power requirements 120V AC, 60Hz

Power consumption

Model	KV-27XBR51 KV-27XBR55	KV-29XBR85	KV-32XBR51 KV-32XBR55 KV-32XBR75
Max.	225W	286W	240W
Standby	1.5W	2W	1.5W

Dimensions (w/h/d)
(KV-27XBR51/27XBR55)
Approx. 661 × 563.5 × 547.5 mm (26⅛ × 22¼ × 21⅝ inches)
(KV-32XBR51/32XVR55)
Approx. 781 × 675 × 604.5 mm (30¾ × 26⅝ × 23⅞ inches)
(KV-32XBR75)
Approx. 922 × 1101 × 665.7 mm (36⅜ × 43⅜ × 26¼ inches)
(KV-29XBR85)
Approx. 769 × 1132.5 × 736 mm (30⅜ × 44⅝ × 29 inches)

Weight
(KV-27XBR51)
Approx. 48.5kg (106lb 15oz)
(KV-32XBR51)
Approx. 78.3kg (172lb 10oz)
(KV-27XBR55)
Approx. 49.4kg (108lb 15oz)
(KV-32XBR55)
Approx. 79.2kg (174lb 10oz)
(KV-32XBR75)
Approx. 137.5kg (303lb 3oz)
(KV-29XBR85)
Approx. 112.8kg (248lb 11oz)

Specifications

Accessories supplied
YES: supplied NO: not supplied

Model	KV-27/32XBR51	KV-27/32XBR55
Programmable Commander	RM-Y106	RM-Y107
	with 2 size AA (R6) Eveready batteries (1)	
Mini Commander	YES	YES
Speakers and speaker cords	Main speakers (2) Super woofer (1) Speaker cords (2) and screws (4) for main speakers	Main speakers (2) Super woofer (1) Speaker cords (2) and screws (4) for main speakers

Model	KV-32XBR75	KV-29XBR85
Programmable Commander	RM-Y107	RM-Y108
	with 2 size AA (R6) Eveready batteries (1)	
Mini Commander	NO	NO
Speakers and speaker cords	NO	NO

Optional accessories

U/V mixer EAC-66
Connecting cable
VMC-810/820S
YC-15V/30V

Design and specifications are subject to change without notice.

Maintenance

Before the cleaning, turn off the TV.

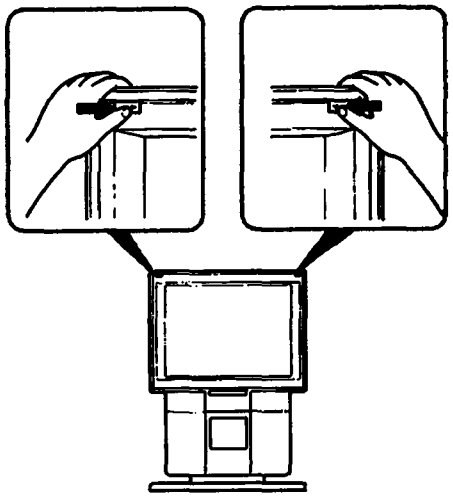
1. Clean the cabinet and the front glass with a soft cloth slightly moistened with mild detergent solution.
2. Wipe them with a dry soft cloth.

Caution
Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

For KV-29XBR85
You can take out the front glass to clean the TV screen.

Move the clasps to inside.
Push the tabs towards the center with your thumbs.

Caution
Be careful when you take the glass out that it does not fall down.



Glossary

ASC (Active Signal Correction)
Adjusts sharpness, brightness, color and picture settings.

Notch
Adjusts dots or stripes which appear while you are watching a picture from a computer or a video source. (Normally, set to NOTCH OFF.)

Picture-in-picture
Displays two or more programs at the same time.

(●) Sound Retrieval System (SRS)
Reproduces the ambience and dynamics of the original live performance so that you can enjoy the sound as if you were at a concert hall or a recording studio. SRS enables you to enjoy the optimum sound from anywhere in the room.
The (●) Sound Retrieval System is manufactured by Sony Corporation under license from the Hughes Aircraft Company, a subsidiary of GM Hughes Electronics. It is covered by U.S. Patent No. 4, 748, 669. Other U.S. and foreign patents pending.
(●) Sound Retrieval System and SRS● are trademarks of the Hughes Aircraft Company, a subsidiary of GM Hughes Electronics.

Super woofer
Amplifies the bass sound and you can enjoy wonderful sound.

S video input/output
Video input and output signals can be separated into Y (luminance, or brightness) and C (chroma, or color) signals. Usually, these two signals are combined in a VCR and sent as one signal to a TV. Separation of the Y and C signals prevents them from interfering with one another, thereby improving picture (especially in color) quality. This TV is equipped with an S video input jack through which these separated signals can be input directly.

Trinitone
Produces pictures with "warmness (reddish)" or "coolness (bluish)."
You can adjust the color temperature of the picture to your preference with this Trinitone feature.

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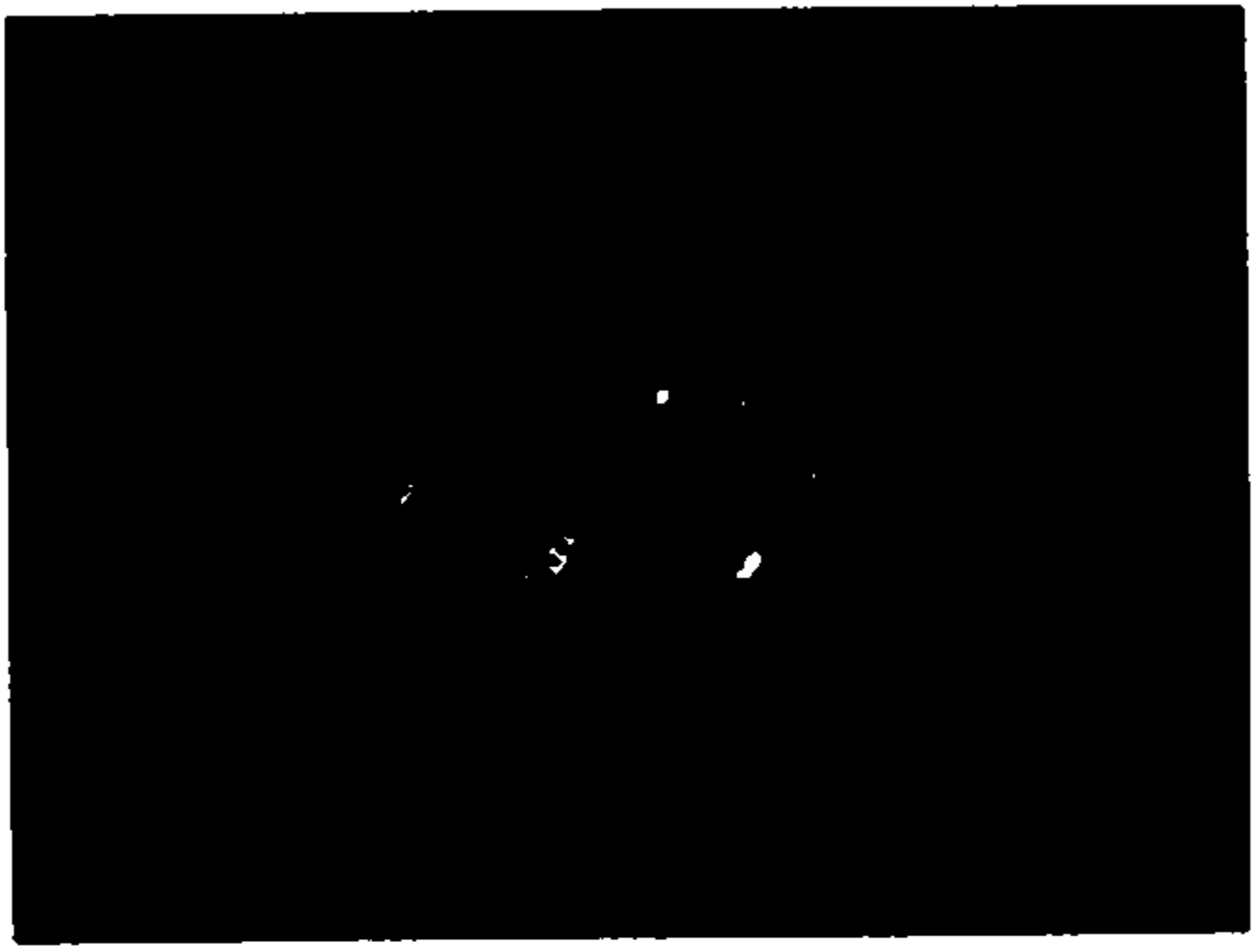

Trinitron® Color TV

KV-27XBR51
KV-27XBR55
KV-32XBR75
KV-32XBR51
KV-32XBR55
KV-29XBR85